



1 MATERIALS PLAN - SIGNAGE & WAYFINDING

SCALE: 1" = 20'-0"

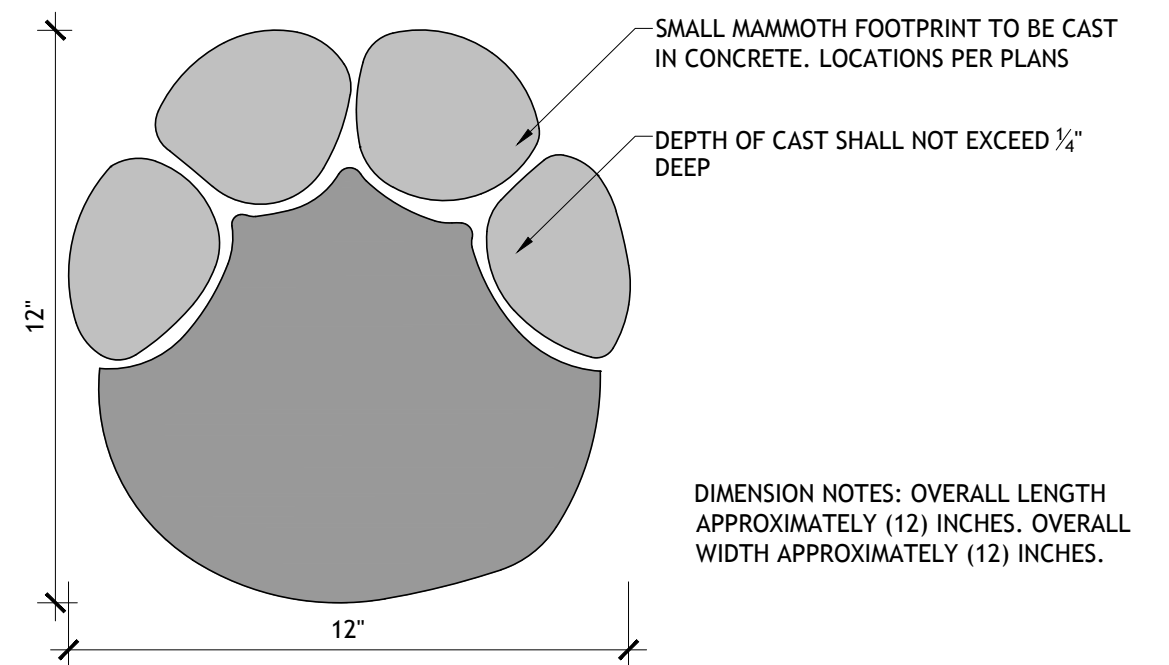
INTERPRETIVE SIGNAGE AND WAYFINDING KEY

I. SAND BLASTED ENTRY SIGN: QUOTE ON GFRC	SUBMIT SHOP DWG.
II. INTERPRETIVE SIGN TYPE I: MAMMOTH SIGN	SHEET L3.8 DETAIL 2-3
III. INTERPRETIVE SIGN TYPE I: ERRATIC SIGN	SHEET L3.8 DETAIL 2-3
IV. INTERPRETIVE SIGN TYPE I: THE FLOOD	SHEET L3.8 DETAIL 2-3
V. INTERPRETIVE SIGN TYPE I: RYTHMITES AND COLUMNAR BASALT	SHEET L3.8 DETAIL 2-3
VI. INTERPRETIVE SIGN TYPE I: FOSSILS OF WASHINGTON	SHEET L3.8 DETAIL 2-3
VII. INTERPRETIVE SIGN TYPE I: GINKGOS	SHEET L3.8 DETAIL 2-3
VIII. INTERPRETIVE SIGN TYPE I: PLANTS OF THE GEOLOGIC LANDSCAPE	SHEET L3.8 DETAIL 2-3
IX. INTERPRETIVE SIGN TYPE I: MIMA MOUNDS	SHEET L3.8 DETAIL 2-3
X. INTERPRETIVE SIGN TYPE II: GEOLOGIC MILEAGE	SHEET L3.8 DETAIL 4
XI. INTERPRETIVE SIGN TYPE II: NUMBER OF FLOOD MILES	SHEET L3.8 DETAIL 4
XII. INTERPRETIVE SIGN TYPE II: NUMBER OF FLOOD EVENTS	SHEET L3.8 DETAIL 4
XIII. INTERPRETIVE SIGN TYPE II: CFS OF FLOOD WATERS	SHEET L3.8 DETAIL 4
XIV. NO CLIMBING SIGN - INSTALL EVER 20 LINEAR FEET OF NON-CLIMBING SURFACE.	SUBMIT SHOP DWG.
XV. ROCK MEDALLION: BASALT (3 EACH)	SHEET L6.1 DETAIL 12
XVI. ROCK MEDALLION: GRANITE (3 EACH)	SHEET L6.1 DETAIL 12
XVII. ROCK MEDALLION: GUINNESS (2 EACH)	SHEET L6.1 DETAIL 12
XVIII. QUOTE IN FLATWORK	
XIX. MUSIC QUOTE IN GFRC	
XX. ANIMALS IN BASALT	

SHEET L3.8 DETAIL 8

FOOTPRINT/IMPRINT KEY

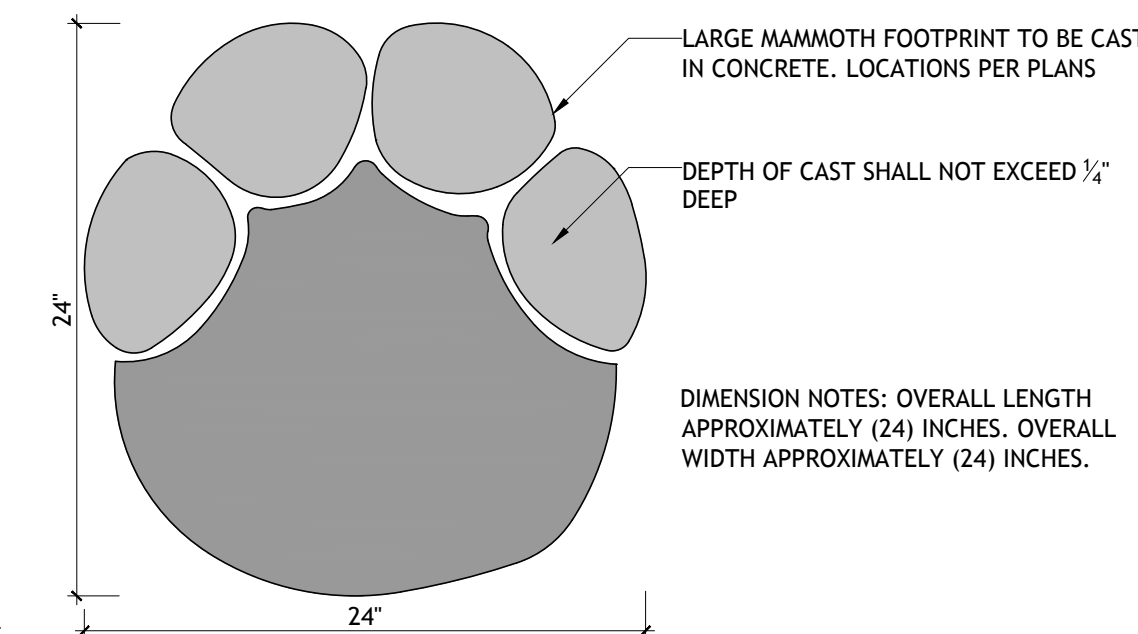
a. MAMMOTH FOOTPRINT IN CONCRETE	SHEET L3.8 DETAIL 6
b. MAMMOTH FOOTPRINT IN PIP	SHEET L3.8 DETAIL 7
c. GINKGO IMPRINT IN CONCRETE	SHEET L3.8 DETAIL 5
d. TRILOBITE IMPRINT IN CONCRETE	PROVIDE SHOP DRAWING



- NOTES:
- LANDSCAPE CONTRACTOR TO PROVIDE MOCK-UP CONCRETE STAMP AND SUBMIT FOR APPROVAL FROM LANDSCAPE ARCHITECT BEFORE INSTALLATION. LANDSCAPE ARCHITECT TO PROVIDE CAD DRAWING OF DETAIL UPON AWARD OF BID.
 - ONE OPTION WOULD BE INFINITY STAMPS AT:
<https://www.infinitystamps.com/products/custom-concrete-stamp?variant=22941792774>

7 CIP SMALL MAMMOTH FOOTPRINT DETAIL

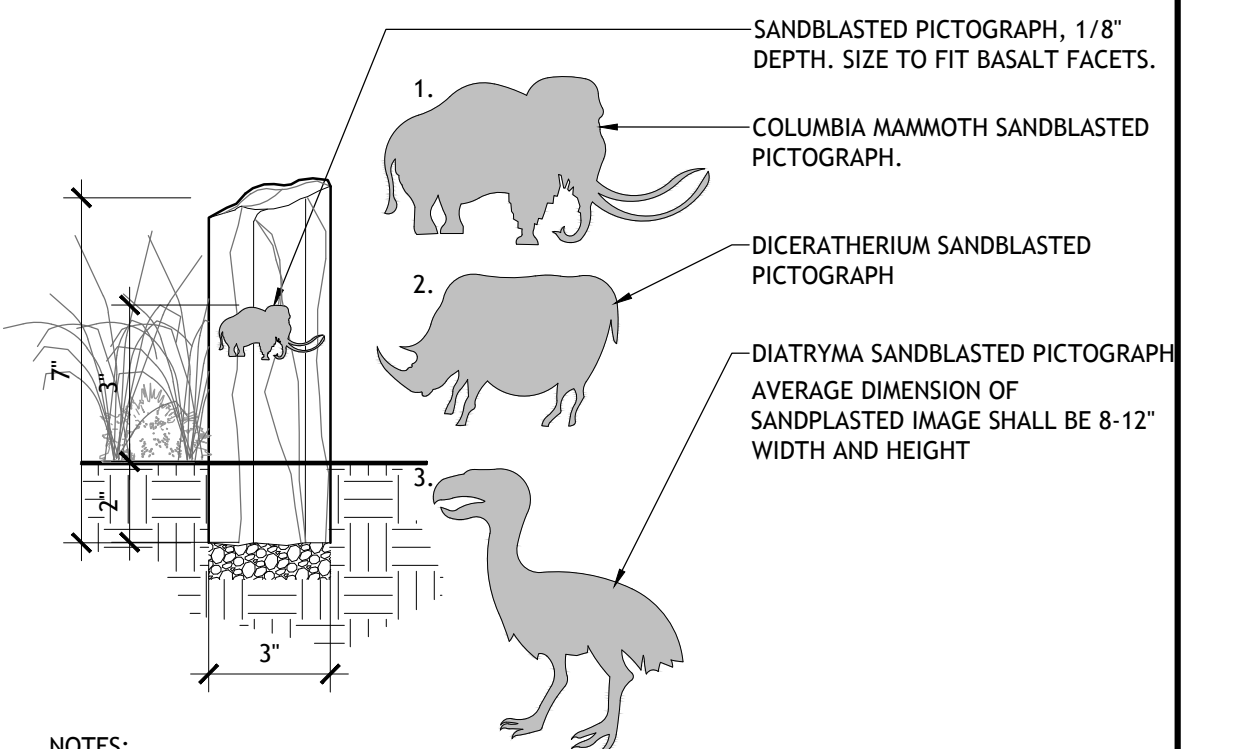
SCALE: 3" = 1'-0"



- NOTES:
- LANDSCAPE CONTRACTOR TO PROVIDE MOCK-UP CONCRETE STAMP AND SUBMIT FOR APPROVAL FROM LANDSCAPE ARCHITECT BEFORE INSTALLATION. LANDSCAPE ARCHITECT TO PROVIDE CAD DRAWING OF DETAIL UPON AWARD OF BID.
 - ONE OPTION WOULD BE INFINITY STAMPS AT:
<https://www.infinitystamps.com/products/custom-concrete-stamp?variant=22941792774>

6 CIP LARGE MAMMOTH FOOTPRINT DETAIL

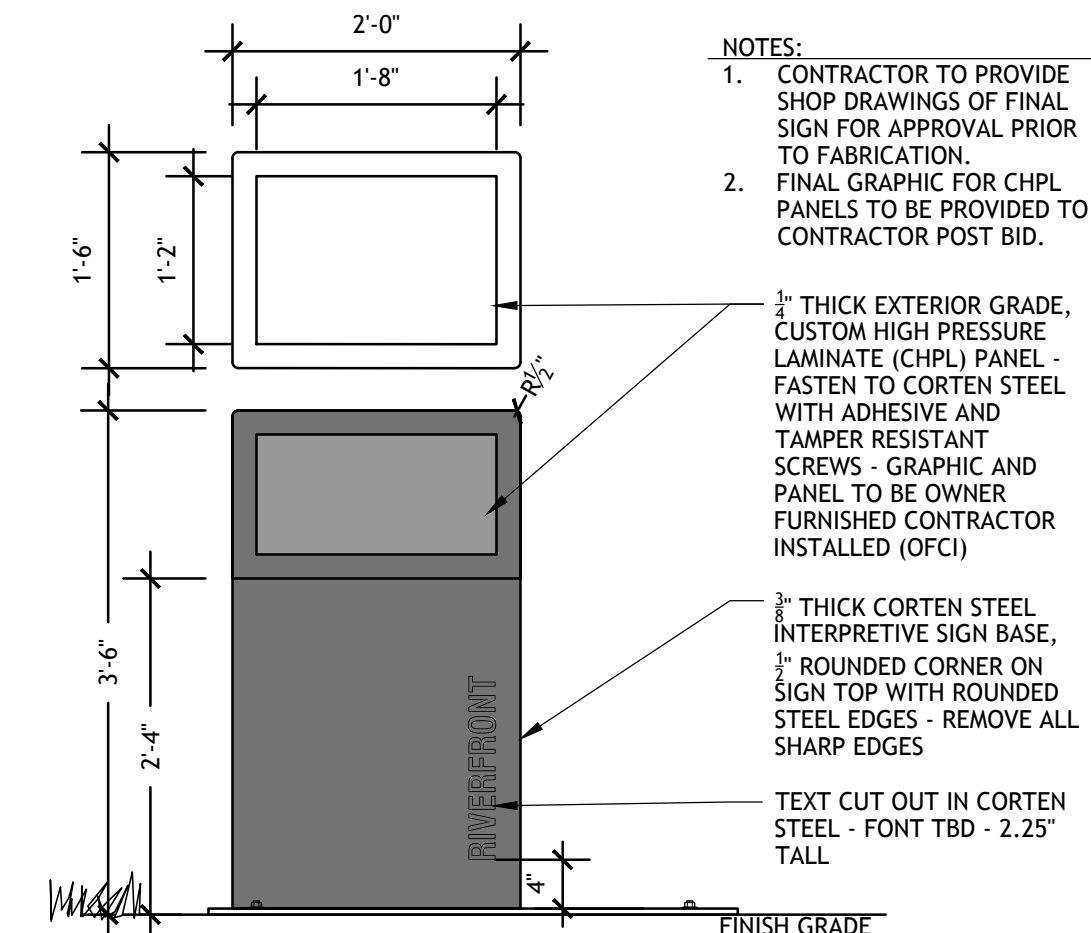
SCALE: 1'-1/2" = 1'-0"



- NOTES:
- SEE COLUMNAR BASALT DETAIL 11 SHT L6.1 FOR INSTALLATION INFORMATION
 - SEE MATERIALS PLAN FOR LOCATIONS OF BASALT COLUMNS WITH SANDBLASTED PICTOGRAPH.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL

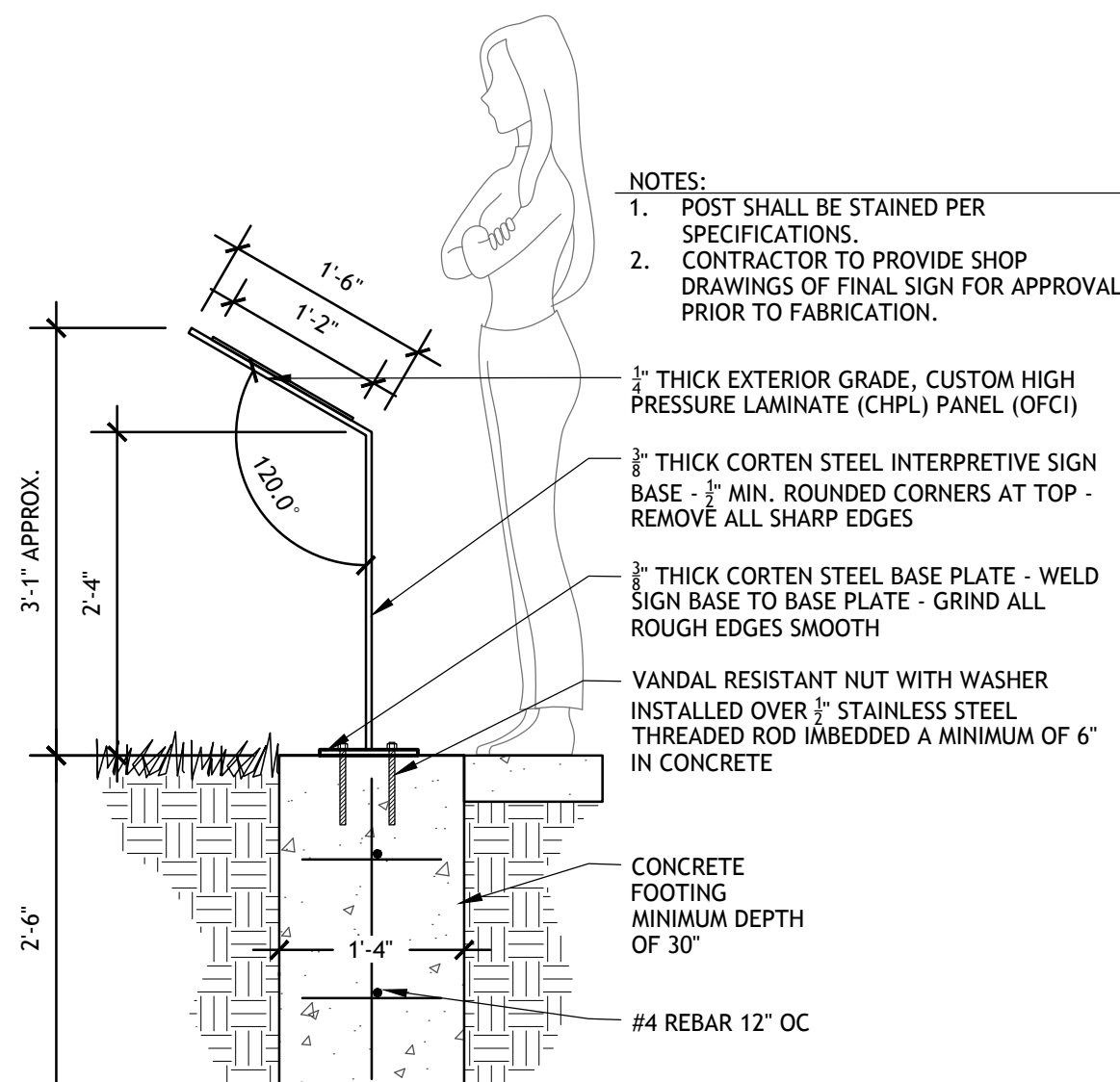
8 COLUMNAR BASALT - PICTOGRAPH

SCALE: 3" = 1'-0"



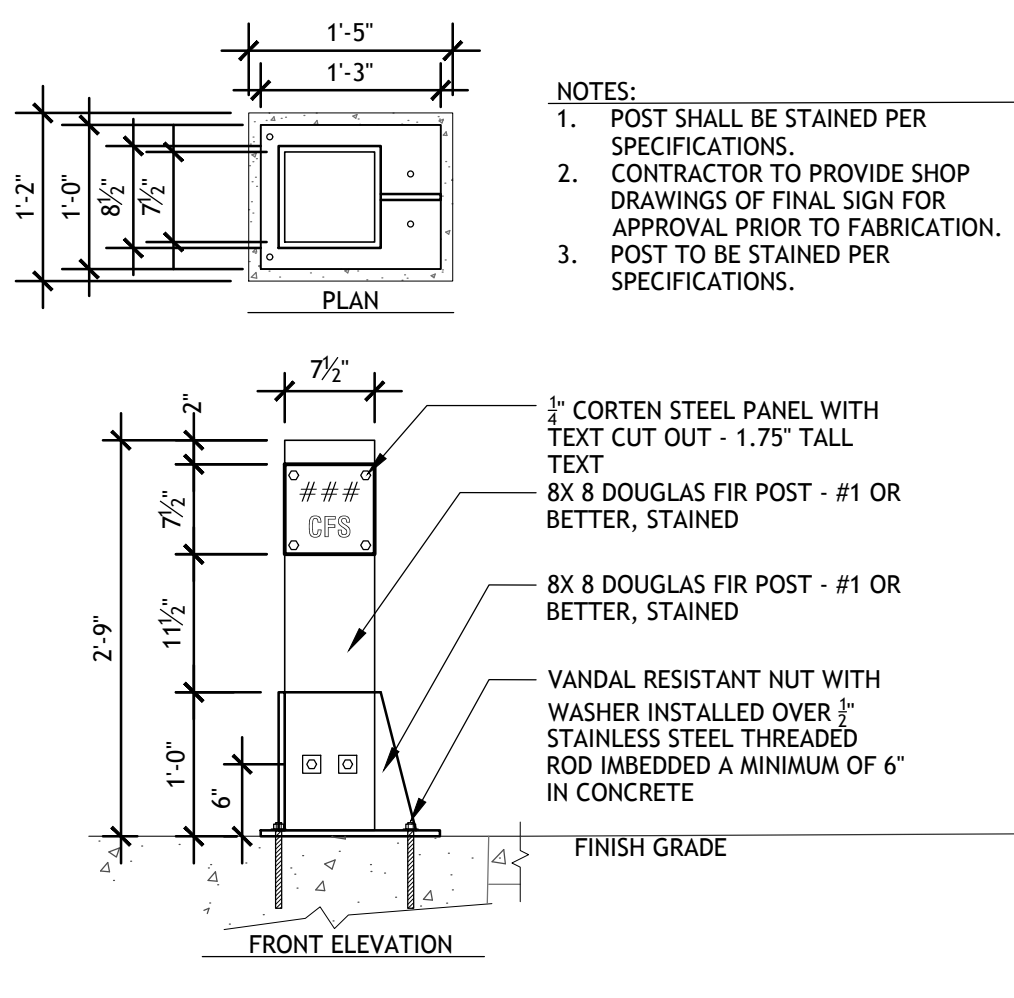
2 INTERP. SIGN TYPE I ELEVATION

SCALE: 3/4" = 1'-0"



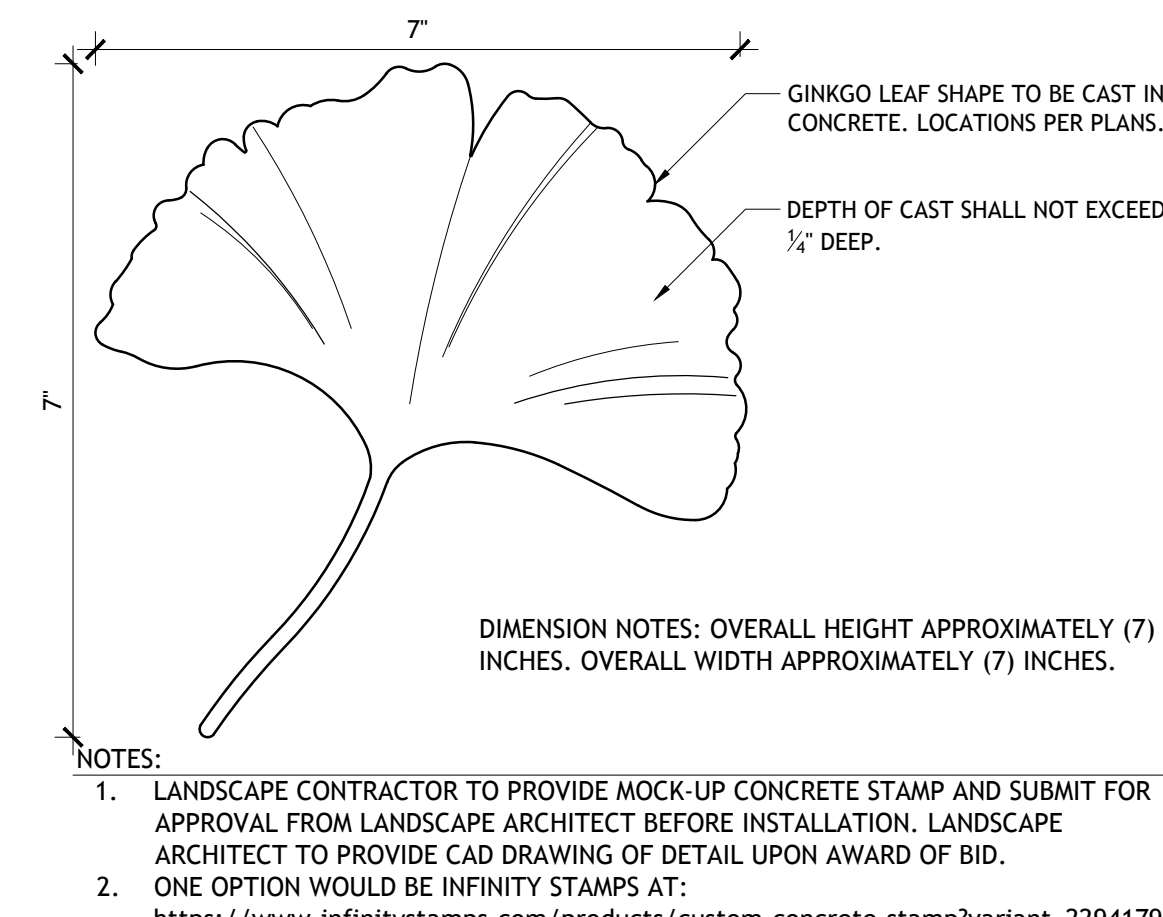
3 INTERP. SIGN TYPE I SECTION

SCALE: 3/4" = 1'-0"



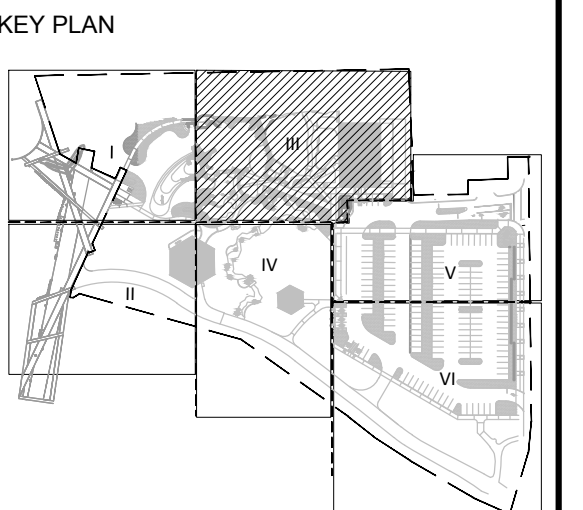
4 INTERP. SIGN TYPE II

SCALE: 3/4" = 1'-0"



5 CAST-IN-PLACE GINKGO LEAF DETAIL

SCALE: 6" = 1'-0"



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L3.8

REVISION NO.

DATE: Jul 15, 2019 - 2:49pm by: jculp

FILE NAME:

BY	REVISIONS	DATE

LOCATION	SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION	SEE SHEET V1.0
CBM NO.	N/A
NAVIG 88	
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
07.03.19	DRAWN: JG/PO
07.03.19	DESIGNED: BL
	CHECKED:
	APPROVED:



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: MATERIALS PLAN - SIGNAGE
7.03.2019

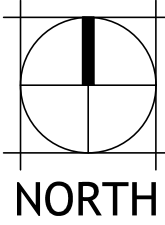


GUARDRAIL AND HANDRAIL SCHEDULE

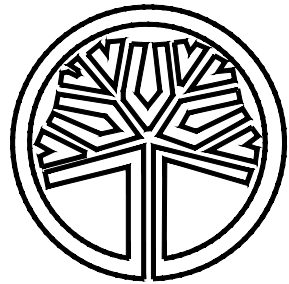
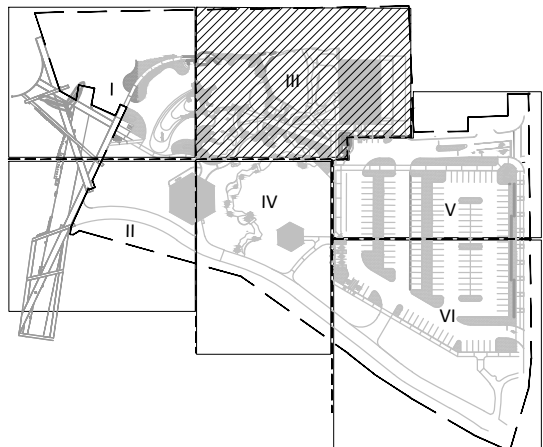
- GUARDRAIL TYPE I - STANDARD GUARDRAIL - SEE SHEET L6.3 DETAIL 1 & 12
- ===== GUARDRAIL TYPE II - BIRDS NEST PANEL GUARDRAIL - SEE SHEET L6.3 DETAIL 2 & 12
- - - - - GUARDRAIL TYPE III - RAILING AT GRFC - SEE SHEET L6.1 DETAIL 8
- - - - - HANDRAIL TYPE I - STANDARD AT CONCRETE WALLS - SEE SHEET L6.2 DETAIL 9 AND SHEET L6.6 DETAILS 2,3,4
- - - - - HANDRAIL TYPE II - ALONG NORTHWEST RAMP - SEE SHEET L6.2 DETAIL 10
- ===== HANDRAIL TYPE III - STANDARD HANDRAIL AT SKATE ENTRY SHEET L6.6 DETAIL 2 AND STAIRS AT ENTRY CIRCLE SHEET L6.1 DETAIL 5.

1 MATERIALS PLAN - GUARDRAILS AND HANDRAILS

SCALE: 1" = 20'-0"



KEY PLAN



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L3.9

FILE NAME:

DATE: Jul 15, 2019 - 2:49pm by: jculp

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"= 20'-0"
CBM NO.	N/A	VERTICAL	
CITY DATUM	NAVD 88	SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

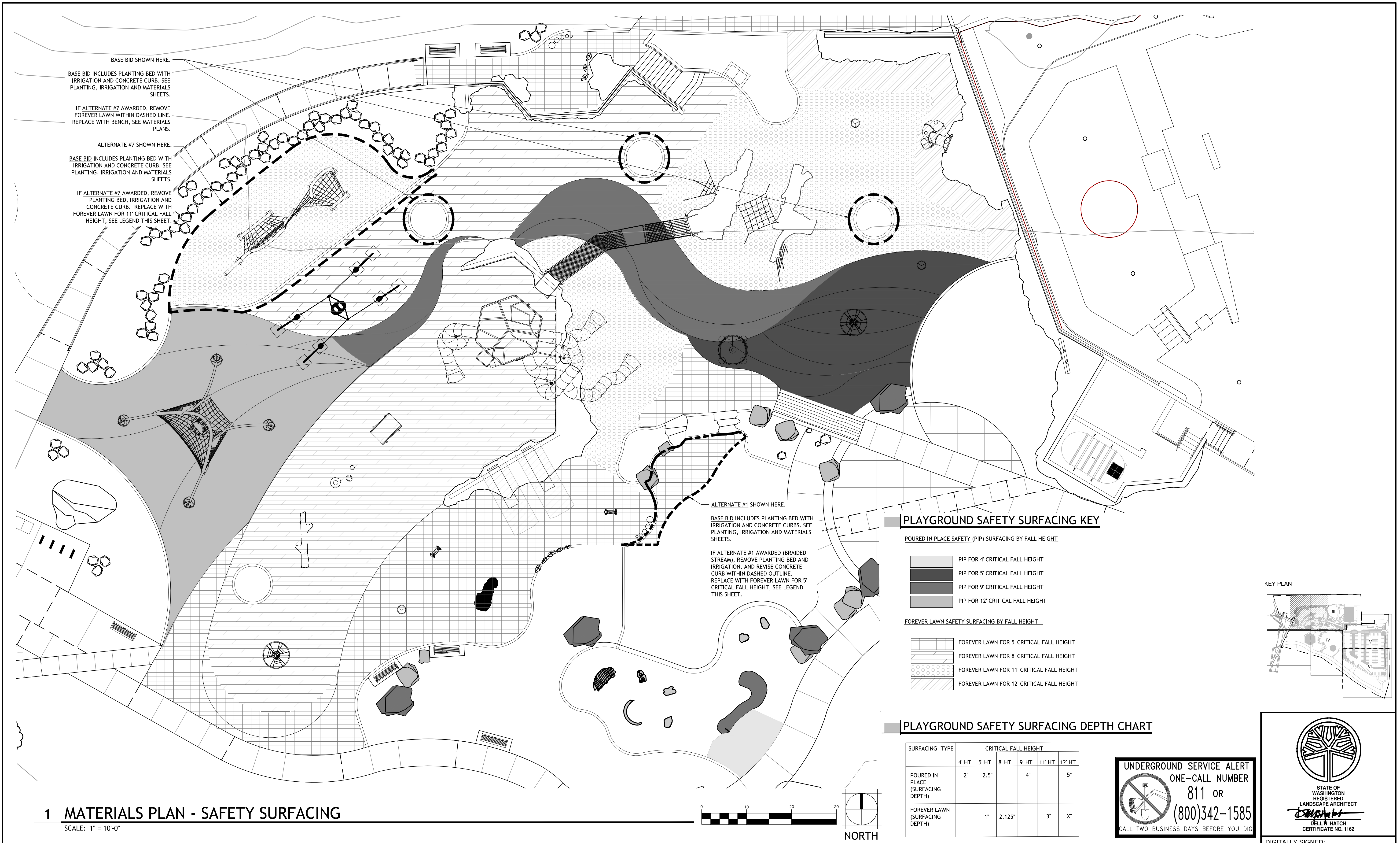
CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95


07.03.19	DRAWN	JG/PO
07.03.19	DESIGNED	BL
	CHECKED	
	APPROVED	

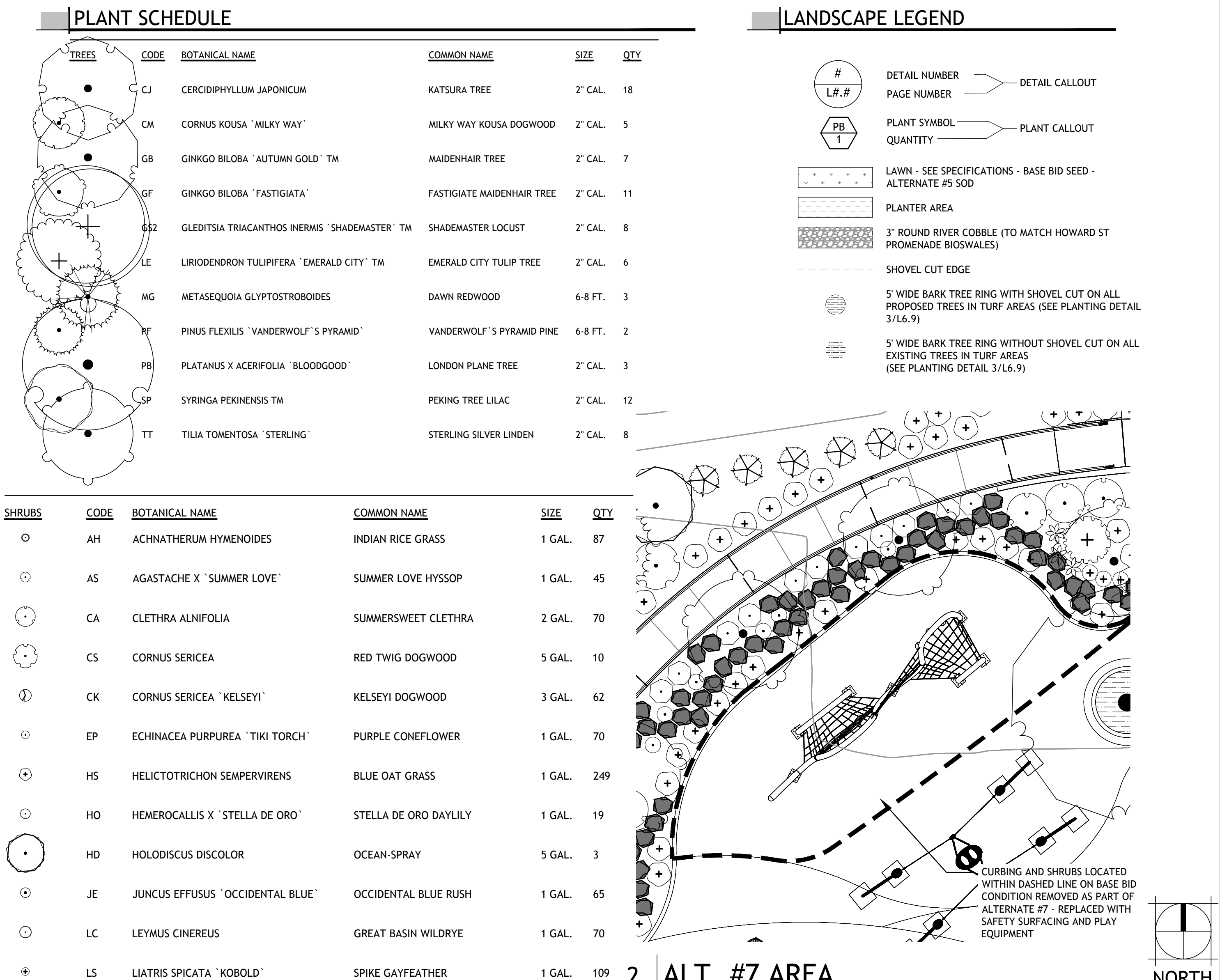


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: MATERIALS PLAN - HANDRAILS & GUARDRAILS
7.03.2019



			<div>B W A</div> <div>BERNARDO WILLS</div> <div>ARCHITECTS PC</div>		LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95			CITY OF SPOKANE, WASHINGTON DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200		PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		TYPE OF IMPROVEMENT: PARK		
					ELEVATION SEE SHEET V1.0		HORIZONTAL 1"= 20'-0"		BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"				CITY PURCHASING NUMBER		DRAWING NUMBER		
					CBM NO. N/A		VERTICAL		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY				SHEET TITLE: MATERIALS PLAN - SAFETY SURFACING 7.03.2019		L3.10		
					NAVIO 88								PR: 1 OF		REVISION NO.		
BY	REVISIONS			DATE	CITY DATUM			SCALE									



1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS, ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.

2. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMAN'S; AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990.

3. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.

4. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTINGS.

5. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.

6. ALL TREE PLANTINGS SHALL RECEIVE (12") OF TOPSOIL. ALL PLANTINGS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% IMPORTED TOPSOIL AND 25% OF COMPOST THAT HAS BEEN THOROUGHLY MIXED.

7. ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" TOPDRESSING INSTALLED. TREAT TOPDRESSING WITH PRE EMERGENT PER DETAILS.

8. SHRUB BED EDGING SHALL BE A SHOVEL CUT EDGE. IT SHALL SEPARATE ALL GRASS AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.

9. FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF MULCH SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.

10. ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED AT THE TIME OF PLANTING.

11. NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.

12. CONTRACTOR IS RESPONSIBLE FOR LOCATING PROPERTY LINE AND WORKING WITHIN THE PROPERTY BOUNDARY.

13. TURF ESTABLISHMENT PROCEDURE SHALL CONSIST OF THE FOLLOWING:

(1) AGRONOMIC SOILS TEST - TEST LOCATIONS SHALL BE OBTAINED FROM IMPORTED TOPSOIL.

(2) THREE FERTILIZER APPLICATIONS - FERTILIZER SHALL BE DEFINED BY THE RECOMMENDATIONS FROM THE SOILS TEST LAB. CONTRACTOR SHALL SUBMIT TEST RESULT AND FERTILIZER CUT SHEETS FOR APPROVAL. APPLICATIONS SHALL OCCUR AT:

- INITIAL TIME OF PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT
- 1 MONTH AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
- 2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT

CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM, WEED FREE, 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEED CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE MOWING SCHEDULE AFTER THE FIRST MOWING IS ACHIEVED. CONTRACTOR SHALL APPLY ONE (1) APPLICATION OF SPREADLEAF SPECIFIC HERBICIDE APPLICATION TO LAWN.























14. CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

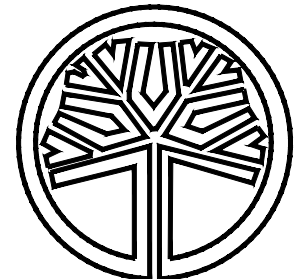
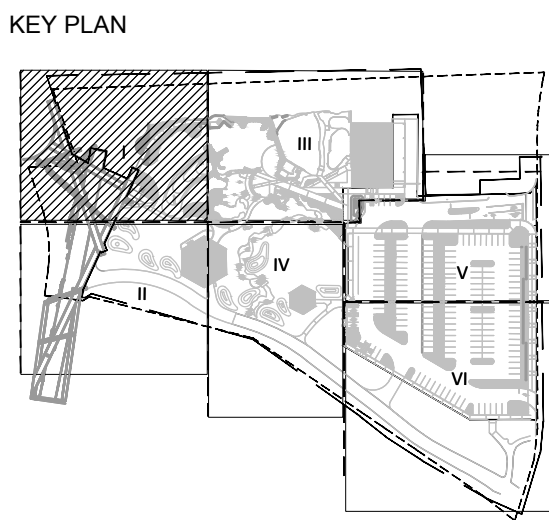
15. ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOIL INSTALLED (AS PER SPECIFICATIONS) FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. ALSO SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.


16. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEFACING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, TREES, AND ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.

17. PRIOR TO STREET/PUBLIC TREE INSTALLATION, PRUNING OR REMOVAL PLEASE HAVE THE CONTRACTED LICENSED CERTIFIED ARBORIST SUBMIT A COMPLETE PUBLIC TREE PERMIT APPLICATIONS AT LEAST 10 DAYS PRIOR TO WORK BEING PERFORMED FOR THIS PROJECT, TO INCLUDE CERTIFICATED ARBORIST INFORMATION AND START AND COMPLETION DATES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE CITIES REQUIREMENTS FOR STREET TREES.

18. NO TREE SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY DRIVEWAY, ALLEY, STREET LIGHT, UTILITY POLE, UNDERGROUND UTILITY, NON-SAFETY STREET SIGN OR FIRE HYDRANT. NO TREE SHALL BE PLANTED WITHIN TWENTY (20) FEET OF A CRITICAL STREET SAFETY SIGN. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CURB DROP FOR STORM WATER. THE POTENTIAL PLACEMENT OF STREET SIGNS, STREET LIGHTS AND UTILITY POLES SHALL BE EVALUATED TO LESSEN THE CONFLICT WITH THE GROWTH OF EXISTING STREET TREES.

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	AH	ACHNATHERUM HYMENOIDES	INDIAN RICE GRASS	1 GAL.	87
	AS	AGASTACHE X `SUMMER LOVE`	SUMMER LOVE HYSSOP	1 GAL.	45
	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
	CK	CORNUS SERICEA `KELSEY`	KELSEY DOGWOOD	3 GAL.	62
	EP	ECHINACEA PURPUREA `TIKI TORCH`	PURPLE CONEFLOWER	1 GAL.	70
	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	249
	HO	HEMEROCALLIS X `STELLA DE ORO`	STELLA DE ORO DAYLILY	1 GAL.	19
	HD	HOLODISCUS DISCOLOR	OCEAN-SPRAY	5 GAL.	3
	JE	JUNCUS EFFUSUS `OCCIDENTAL BLUE`	OCCIDENTAL BLUE RUSH	1 GAL.	65
	LC	LEYMUS CINEREUS	GREAT BASIN WILDRYE	1 GAL.	70
	LS	LIATRIS SPICATA `KOBOLD`	SPIKE GAYFEATHER	1 GAL.	109
	MR	MAHONIA REPENS	CREEPING MAHONIA	1 GAL.	48
	MS	MISCANTHUS SINENSIS `GRAZIELLA`	GRAZIELLA MAIDEN GRASS	1 GAL.	202
	PV	PANICUM VIRGATUM `SHENANDOAH`	SWITCH GRASS	1 GAL.	50
	PA	PENNISETUM ALOPECUROIDES `HAMELN`	HAMELN DWARF FOUNTAIN GRASS	1 GAL.	514
	PM	PHYSOCARPUS OPULIFOLIUS `MONLO` TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS `SMPOTW`	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA `PINK BEAUTY`	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA `INDIAN SUMMER`	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS `SIOUX BLUE`	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA `LITTLE PRINCESS`	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DELL R. HATCH
CERTIFICATE NO. 1162

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

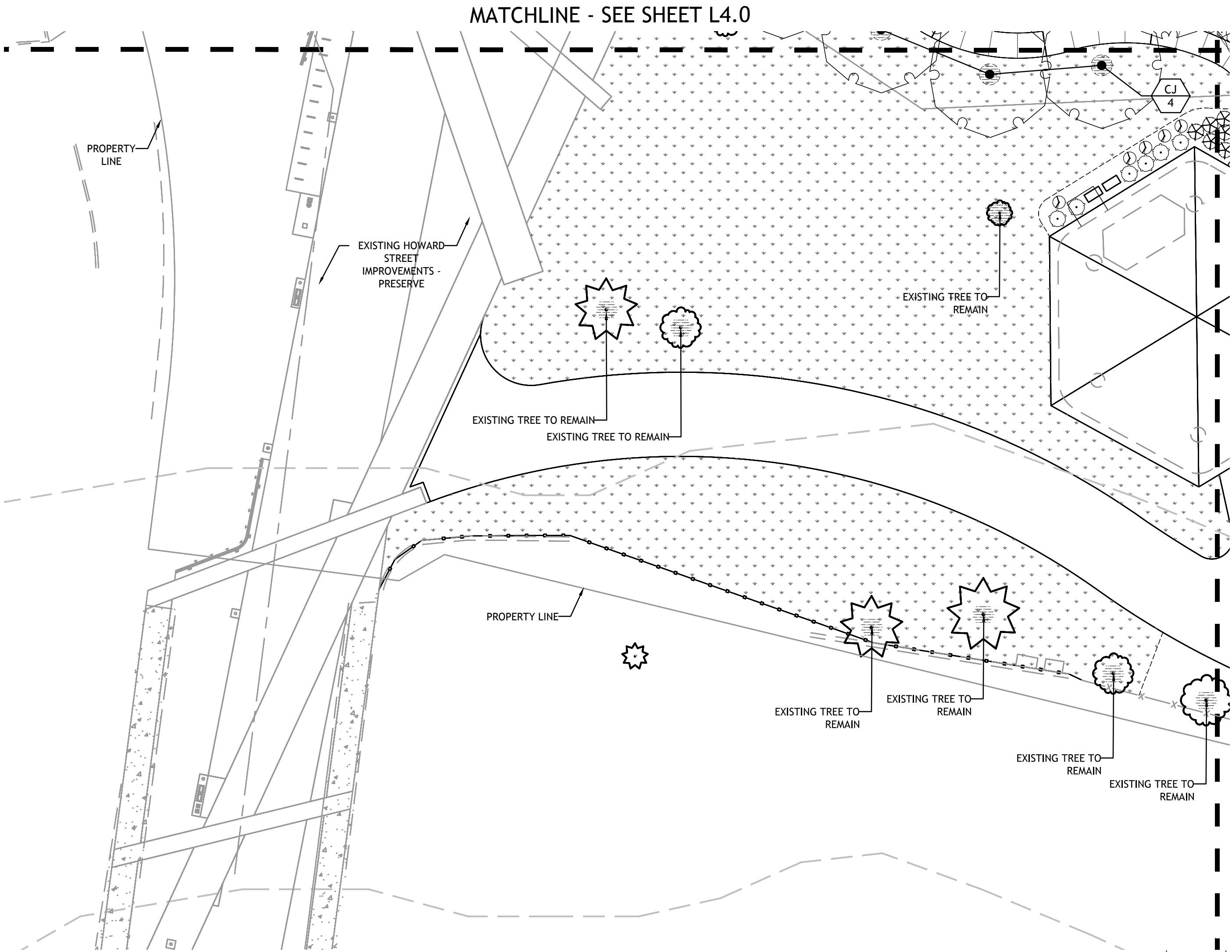
CITY PURCHASING NUMBER

	L4.0
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P#:	1	OF	REVISION NO.:
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DATE: Jul 03, 2019 - 12:33pm by: jculp

FILE NAME:



1 PLANTING PLAN - AREA II

SCALE: 1" = 20'-0"

LANDSCAPE NOTES

- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMAN'S; AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTINGS.
- NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.
- ALL TURF AREAS SHALL RECEIVE (12") OF CLEAN TOPSOIL. ALL PLANTING BEDS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% IMPORTED TOPSOIL AND 25% OF COMPOST THAT HAS BEEN THOROUGHLY MIXED.
- ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" TOPDRESSING INSTALLED. TREAT TOPDRESSING WITH PRE EMERGENT PER DETAILS.
- SHRUB BED EDGING SHALL BE A SHOVEL CUT EDGE. IT SHALL SEPARATE ALL GRASS AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.
- FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF MULCH SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.
- ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED AT THE TIME OF PLANTING.
- NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING PROPERTY LINE AND WORKING WITHIN THE PROPERTY BOUNDARY.
- TURF ESTABLISHMENT PERIOD SHALL CONSIST OF THE FOLLOWING:
 - AGRONOMIC SOILS TEST - TEST LOCATIONS SHALL BE OBTAINED FROM IMPORTED TOPSOIL.
 - THREE FERTILIZER APPLICATIONS - FERTILIZER SHALL BE DEFINED BY THE RECOMMENDATIONS FROM THE SOILS TEST LAB. CONTRACTOR SHALL SUBMIT TEST RESULT AND FERTILIZER CUT SHEETS FOR APPROVAL. APPLICATIONS SHALL OCCUR AT:
 - INITIAL TIME OF PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT
 - 1 MONTH AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
 - 2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
- CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM, WEED FREE, 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEED CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE THE ESTABLISHMENT OF THE TURF AFTER ALL REQUIREMENTS ARE MET. CONTRACTOR SHALL THEN APPLY ONE FINAL BROADLEAF SPECIFIC HERBICIDE APPLICATION TO LAWN.
- CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOD INSTALLED (AS PER SPECIFICATIONS) FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. ALSO SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEFACTING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, TREES, AND ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.
- PRIOR TO STREET/PUBLIC TREE INSTALLATION, PRUNING OR REMOVAL PLEASE HAVE THE CONTRACTED LICENSED CERTIFIED ARBORIST SUBMIT A COMPLETE PUBLIC TREE PERMIT APPLICATIONS AT LEAST 10 DAYS PRIOR TO WORK BEING PERFORMED FOR THIS PROJECT, TO INCLUDE CERTIFICATED ARBORIST INFORMATION AND START AND COMPLETION DATES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE CITIES REQUIREMENTS FOR STREET TREE PERMITS.
- NO TREE SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY DRIVEWAY, ALLEY, STREET LIGHT, UTILITY POLE, UNDERGROUND UTILITY, NON-SAFETY STREET SIGN OR FIRE HYDRANT. NO TREE SHALL BE PLANTED WITHIN TWENTY (20) FEET OF A CRITICAL STREET SAFETY SIGN. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CURB DROP FOR STORM WATER. THE POTENTIAL PLACEMENT OF STREET SIGNS, STREET LIGHTS AND UTILITY POLES SHALL BE EVALUATED TO LESSEN THE CONFLICT WITH THE GROWTH OF EXISTING STREET TREES.

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	2" CAL.	18
	CM	CORNUS KOUSA 'MILKY WAY'	MILKY WAY KOUSA DOGWOOD	2" CAL.	5
	GB	GINKGO BILOBA 'AUTUMN GOLD' TM	MAIDENHAIR TREE	2" CAL.	7
	GF	GINKGO BILOBA 'FASTIGIATA'	FASTIGIATE MAIDENHAIR TREE	2" CAL.	11
	GSZ	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER LOCUST	2" CAL.	8
	LE	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	6
	MG	METASEQUOIA GLYPTOSTROBODES	DAWN REDWOOD	6-8 FT.	3
	PF	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID PINE	6-8 FT.	2
	PB	PLATANUS X ACERIFOLIA 'BLOODGOOD'	LONDON PLANE TREE	2" CAL.	3
	SP	SYRINGA PEKINENSIS TM	PEKING TREE LILAC	2" CAL.	12
	TT	TILIA TOMENTOSA 'STERLING'	STERLING SILVER LINDEN	2" CAL.	8

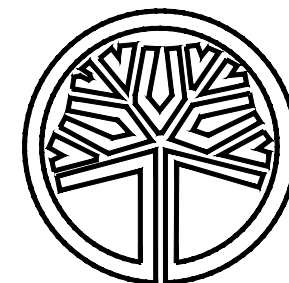
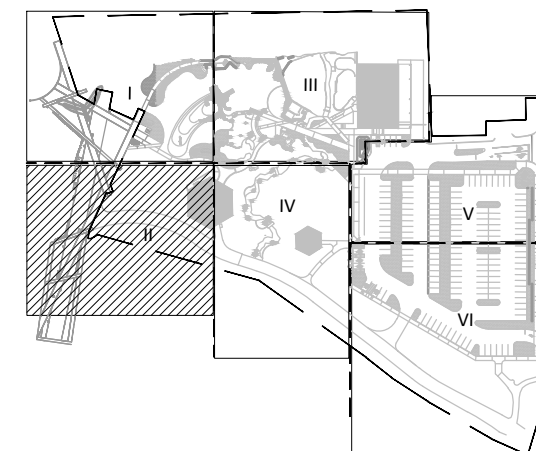
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	AH	ACHNATHERUM HYMENOIDES	INDIAN RICE GRASS	1 GAL.	87
	AS	AGASTACHE X 'SUMMER LOVE'	SUMMER LOVE HYSSOP	1 GAL.	45
	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
	CK	CORNUS SERICEA 'KELSEY'	KELSEYI DOGWOOD	3 GAL.	62
	EP	ECHINACEA PURPUREA 'TIKI TORCH'	PURPLE CONEFLOWER	1 GAL.	70
	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	249
	HO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.	19
	HD	HOLODISCUS DISCOLOR	OCEAN-SPRAY	5 GAL.	3
	JE	JUNCUS EFFUSUS 'OCCIDENTAL BLUE'	OCCIDENTAL BLUE RUSH	1 GAL.	65
	LC	LEYMUS CINEREUS	GREAT BASIN WILDRYE	1 GAL.	70
	LS	LIATRIS SPICATA 'KOBOLD'	SPIKE GAYFEATHER	1 GAL.	109
	MR	MAHONIA REPENS	CREEPING MAHONIA	1 GAL.	48
	MS	MISCANTHUS SINENSIS 'GRAZIELLA'	GRAZIELLA MAIDEN GRASS	1 GAL.	202
	PV	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	1 GAL.	50
	PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	1 GAL.	514
	PM	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS 'SMPOTW'	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA 'PINK BEAUTY'	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA 'INDIAN SUMMER'	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS 'SIOUX BLUE'	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

LANDSCAPE LEGEND

- #
L#.#
- DETAIL NUMBER
PAGE NUMBER
- PB
1
- PLANT SYMBOL
QUANTITY
- DETAIL CALLOUT
PLANT CALLOUT
- LAWN - SEE SPECIFICATIONS - BASE BID SEED -
ALTERNATE #5 SOD
- PLANTER AREA
- 3" ROUND RIVER COBBLE (TO MATCH HOWARD ST
PROMENADE BIOSWALES)
- SHOVEL CUT EDGE
- 5' WIDE BARK TREE RING WITH SHOVEL CUT ON ALL
PROPOSED TREES IN TURF AREAS (SEE PLANTING DETAIL
3/L6.9)
- 5' WIDE BARK TREE RING WITHOUT SHOVEL CUT ON ALL
EXISTING TREES IN TURF AREAS
(SEE PLANTING DETAIL 3/L6.9)



KEY PLAN



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L4.1

FILE NAME:

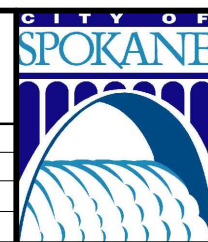
DATE: Jul 03, 2019 - 12:34pm by: jculp

BY	REVISIONS	DATE

BWA	BERNARDO WILLS
ARCHITECTS PC	

LOCATION	SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION	SEE SHEET V1.0
CBM NO.	N/A
NAVOD BB	VERTICAL
CITY DATUM	SCALE
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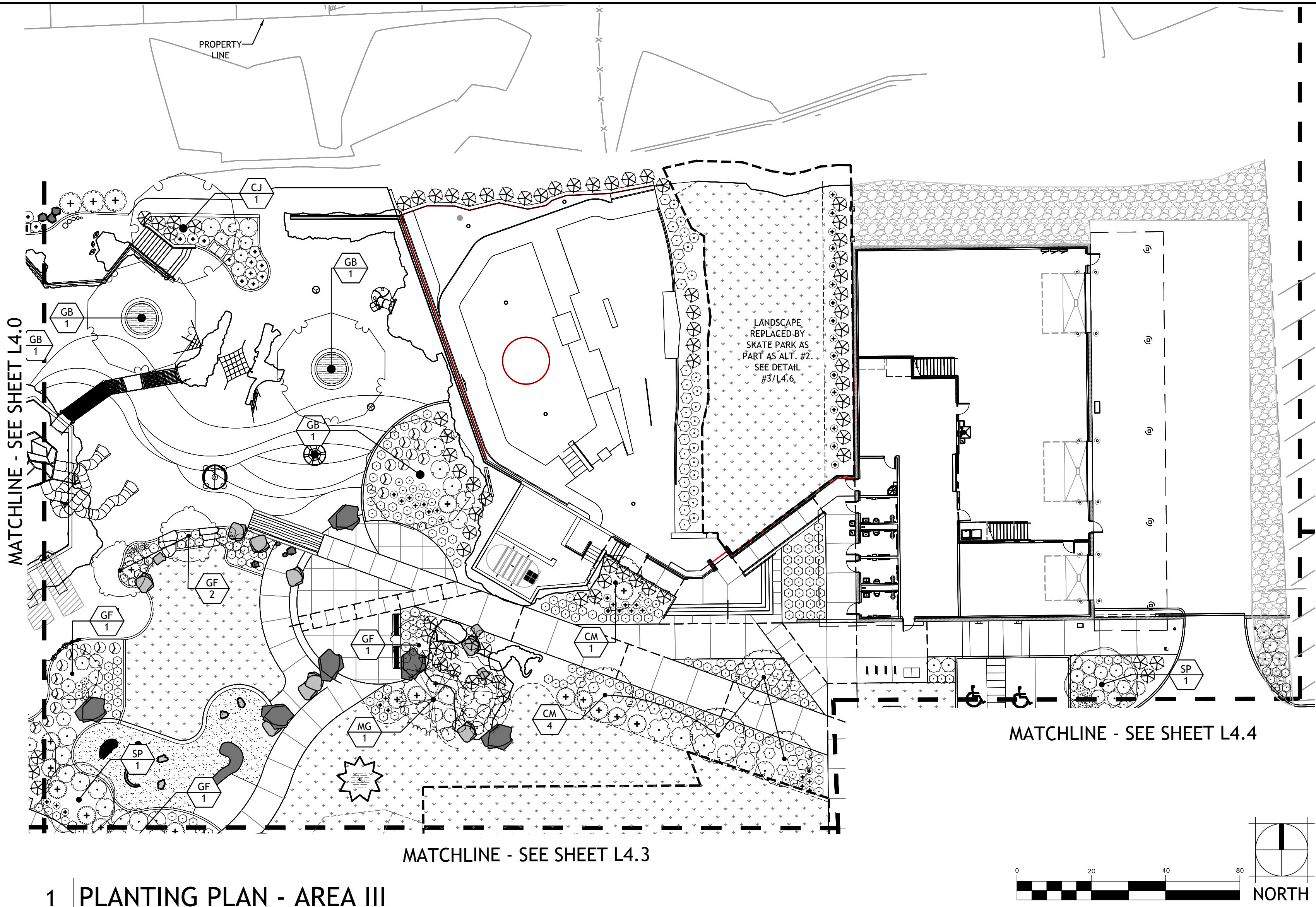
CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
07.03.19	DRAWN JC/PO
07.03.19	DESIGNED BL
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: PLANTING PLAN - AREA II
7.03.2019

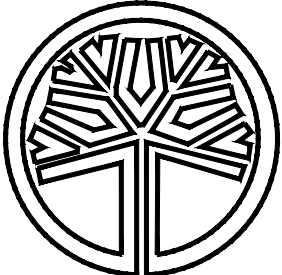
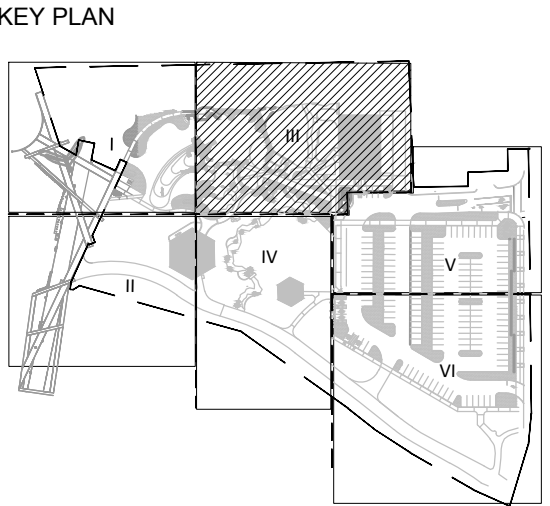


PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	2" CAL.	18
	CM	CORNUS KOUSA 'MILKY WAY'	MILKY WAY KOUSA DOGWOOD	2" CAL.	5
	GB	GINKGO BILOBA 'AUTUMN GOLD' TM	MAIDENHAIR TREE	2" CAL.	7
	GF	GINKGO BILOBA 'FASTIGIATA'	FASTIGIATE MAIDENHAIR TREE	2" CAL.	11
	GSZ	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER LOCUST	2" CAL.	8
	LE	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	6
	MG	METASEQUOIA GLYPTOSTROBOIDES	DAWN REDWOOD	6-8 FT.	3
	PF	PINUS FLEXILIS 'VANDERWOLF' S PYRAMID	VANDERWOLF S PYRAMID PINE	6-8 FT.	2
	PB	PLATANUS X ACERIFOLIA 'BLOODGOOD'	LONDON PLANE TREE	2" CAL.	3
	SP	SYRINGA PEKINENSIS TM	PEKING TREE LILAC	2" CAL.	12
	TT	TILIA TOMENTOSA 'STERLING'	STERLING SILVER LINDEN	2" CAL.	8

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	AH	ACHNATHERUM HYMENOIDES	INDIAN RICE GRASS	1 GAL.	87
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	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
	CK	CORNUS SERICEA 'KELSEYI'	KELSEYI DOGWOOD	3 GAL.	62
	EP	ECHINACEA PURPUREA 'TIKI TORCH'	PURPLE CONEFLOWER	1 GAL.	70
	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	249
	HO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.	19
	HD	HOLODISCUS DISCOLOR	OCEAN-SPRAY	5 GAL.	3
	JE	JUNCUS EFFUSUS 'OCCIDENTAL BLUE'	OCCIDENTAL BLUE RUSH	1 GAL.	65
	LC	LEYMUS CINEREUS	GREAT BASIN WILDRYE	1 GAL.	70
	LS	LIATRIS SPICATA 'KOBOLD'	SPIKE GAYFEATHER	1 GAL.	109
	MR	MAHONIA REPENS	CREEPING MAHONIA	1 GAL.	48
	MS	MISCANTHUS SINENSIS 'GRAZIELLA'	GRAZIELLA MAIDEN GRASS	1 GAL.	202
	PV	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	1 GAL.	50
	PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	1 GAL.	514
	PM	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS 'SMPOTW'	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA 'PINK BEAUTY'	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA 'INDIAN SUMMER'	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS 'SIOUX BLUE'	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811 OR
(800)342-1585
CALL TWO BUSINESS DAYS BEFORE YOU DIG



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L4.2

FILE NAME:

DATE: Jul 03, 2019 - 12:34pm by: jculp

1 PLANTING PLAN - AREA III

SCALE: 1" = 20'-0"

LANDSCAPE NOTES

- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMANS; AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTINGS.
- NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.
- ALL TURF AREAS SHALL RECEIVE (12") OF CLEAN TOPSOIL. ALL PLANTING BEDS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% IMPORTED TOPSOIL AND 25% OF COMPOST THAT HAS BEEN THOROUGHLY MIXED.
- ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" TOPDRESSING INSTALLED. TREAT TOPDRESSING WITH PRE EMERGENT PER DETAILS.
- SHRUB BED EDGING SHALL BE A SHOVEL CUT EDGE. IT SHALL SEPARATE ALL GRASS AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.
- FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF MULCH SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.
- ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED AT THE TIME OF PLANTING.
- NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING PROPERTY LINE AND WORKING WITHIN THE PROPERTY BOUNDARY.
- TURF ESTABLISHMENT PERIOD SHALL CONSIST OF THE FOLLOWING:
 - AGRONOMIC SOILS TEST - TEST LOCATIONS SHALL BE OBTAINED FROM IMPORTED TOPSOIL.
 - THREE FERTILIZER APPLICATIONS - FERTILIZER SHALL BE DEFINED BY THE RECOMMENDATIONS FROM THE SOILS TEST LAB. CONTRACTOR SHALL SUBMIT TEST RESULT AND FERTILIZER CUT SHEETS FOR APPROVAL. APPLICATIONS SHALL OCCUR AT:
 - INITIAL TIME OF PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT
 - 1 MONTH AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
 - 2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
- CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM, WEED FREE, 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEED CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE THE ESTABLISHMENT OF THE TURF AFTER ALL REQUIREMENTS ARE MET. CONTRACTOR SHALL THEN APPLY ONE FINAL BROADLEAF SPECIFIC HERBICIDE APPLICATION TO LAWN.
- CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOD INSTALLED (AS PER SPECIFICATIONS) FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. ALSO SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEFACING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, TREES, AND ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.
- PRIOR TO STREET/PUBLIC TREE INSTALLATION, PRUNING OR REMOVAL PLEASE HAVE THE CONTRACTED LICENSED CERTIFIED ARBORIST SUBMIT A COMPLETE PUBLIC TREE PERMIT APPLICATIONS AT LEAST 10 DAYS PRIOR TO WORK BEING PERFORMED FOR THIS PROJECT, TO INCLUDE CERTIFICATED ARBORIST INFORMATION AND START AND COMPLETION DATES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE CITIES REQUIREMENTS FOR STREET TREE PERMITS.
- NO TREE SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY DRIVEWAY, ALLEY, STREET LIGHT, UTILITY POLE, UNDERGROUND UTILITY, NON-SAFETY STREET SIGN OR FIRE HYDRANT. NO TREE SHALL BE PLANTED WITHIN TWENTY (20) FEET OF A CRITICAL STREET SAFETY SIGN. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CURB DROP FOR STORM WATER. THE POTENTIAL PLACEMENT OF STREET SIGNS, STREET LIGHTS AND UTILITY POLES SHALL BE EVALUATED TO LESSEN THE CONFLICT WITH THE GROWTH OF EXISTING STREET TREES.

BY	REVISIONS	DATE	B W A BERNARDO WILLS ARCHITECTS PC	LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	ELEVATION SEE SHEET V1.0	HORIZONTAL 1"= 20'-0"	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	CITY OF SPOKANE	CITY OF SPOKANE, WASHINGTON DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200	PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET	SHEET TITLE: PLANTING PLAN - AREA III 7.03.2019	CITY PURCHASING NUMBER	DRAWING NUMBER L4.2
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PLANT SCHEDULE

- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMANS'; AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990.
3. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE PLANTING WITH THE WRITTEN CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTINGS.
5. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.
6. ALL TURF AREAS SHALL RECEIVE (12") OF CLEAN TOPSOIL. ALL PLANTING BEDS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% IMPORTED TOPSOIL AND 25% OF COMPOST THAT HAS BEEN THOROUGHLY MIXED.
7. ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" TOPDRESSING INSTALLED. TREAT TOPDRESSING WITH PER EMERGENT PER DETAILS.
8. SHRUB BED EDGING SHALL BE A SHOVEL CUT EDGE. IT SHALL SEPARATE ALL GRASS AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.
9. FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF MULCH SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.
10. ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED AT THE TIME OF PLANTING.
11. NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.
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13. TURF ESTABLISHMENT PERIOD SHALL CONSIST OF THE FOLLOWING:
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 - 1 MONTH AFTER PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT
 - 2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT

CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM, WEED FREE, 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEED CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE THE ESTABLISHMENT OF THE TURF AFTER ALL REQUIREMENTS ARE MET. CONTRACTOR SHALL THEN APPLY ONE FINAL BROADLEAF SPECIFIC HERBICIDE APPLICATION TO LAWN.

14. CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBMITTAL OF SUBSTANTIAL COMPLETION.
15. ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOD INSTALLED (AS PER SPECIFICATIONS) FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. ALSO SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.
16. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEGRADING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, TREES, AND ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.
17. PRIOR TO STREET TREE INSTALLATION, PRUNING OR REMOVAL PLEASE HAVE THE CONTRACTED LICENSED CERTIFIED ARBORIST SUBMIT A COMPLETE PUBLIC TREE PERMIT APPLICATIONS AT LEAST 10 DAYS PRIOR TO WORK BEING PERFORMED FOR THIS PROJECT, TO INCLUDE CERTIFICATED ARBORIST INFORMATION AND START AND COMPLETION DATES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE CITIES REQUIREMENTS FOR STREET TREE PERMITS.
18. NO TREE SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY DRIVEWAY, ALLEY, STREET LIGHT, UTILITY POLE, UNDERGROUND UTILITY, NON-SAFETY STREET SIGN OR FIRE HYDRANT. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CRITICAL STREET SAFETY SIGN. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CURB DOW FOR STORM WATER. THE POTENTIAL PLACEMENT OF STREET SIGNS, STREET LIGHTS AND UTILITY POLES SHALL BE EVALUATED TO LESSEN THE CONFLICT WITH THE GROWTH OF EXISTING STREET TREES.

#
L.#.#

DETAIL NUMBER
PAGE NUMBER

PB
1

PLANT SYMBOL
QUANTITY

PLANT CALLOUT
PLANT CALLOUT

LAWN - SEE SPECIFICATIONS - BASE BID SEED -
ALTERNATE #5 SOD

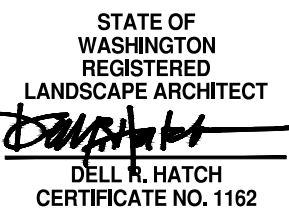
PLANTER AREA

3" ROUND RIVER COBBLE (TO MATCH HOWARD
PROMENADE BIOSWALES)

SHOVEL CUT EDGE












5' WIDE BARK TREE RING WITH SHOVEL CUT OF
PROPOSED TREES IN TURF AREAS (SEE PLANTING
3/L6.9)























5' WIDE BARK TREE RING WITHOUT SHOVEL CUT
EXISTING TREES IN TURF AREAS
(SEE PLANTING DETAIL 3/L6.9)



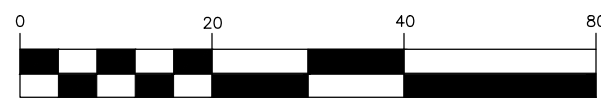
L4.3

REVISION NO.:

<u>TREES</u>	<u>CODE</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>QTY</u>
	CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	2" CAL.	18
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	GB	GINKGO BILOBA 'AUTUMN GOLD' TM	MAIDENHAIR TREE	2" CAL.	7
	GF	GINKGO BILOBA 'FASTIGIATA'	FASTIGIATE MAIDENHAIR TREE	2" CAL.	11
	GSZ	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER LOCUST	2" CAL.	8
	LE	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	6
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	PF	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID PINE	6-8 FT.	2
	PB	PLATANUS X ACERIFOLIA 'BLOODGOOD'	LONDON PLANE TREE	2" CAL.	3
	SP	SYRINGA PEKINENSIS TM	PEKING TREE LILAC	2" CAL.	12
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	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
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	LS	LIATRIS SPICATA 'KOBOLD'	SPIKE GAYFEATHER	1 GAL.	109
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	PM	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS 'SMPOTW'	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA 'PINK BEAUTY'	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA 'INDIAN SUMMER'	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS 'SIOUX BLUE'	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

SCALE: 1" = 20'-0"



NORTH

[illegible]

DATE: Jul 03, 2019 - 12:35pm by: jculp

FILE NAME



1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS, ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.

2. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMAN'S; AMERICAN STANDARD FOR NURSERY STOCK, ANS J60.1-1990.

3. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.

4. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTING.

5. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.

6. ALL TURF AREAS SHALL RECEIVE (12") OF CLEAN TOPSOIL. ALL PLANTING BEDS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% IMPORTED TOPSOIL AND 25% OF COMPOST THAT HAS BEEN THOROUGHLY MIXED.

7. ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" TOPDRESSING INSTALLED. TREAT TOPDRESSING WITH PRE EMERGENT PER DETAILS.

8. SHRUB BED EDGING SHALL BE A SHOVEL CUT EDGE. IT SHALL SEPARATE ALL GRASS AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.

9. FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF MULCH SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.

10. ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED AT THE TIME OF PLANTING.

11. NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.

12. CONTRACTOR IS RESPONSIBLE FOR LOCATING PROPERTY LINE AND WORKING WITHIN THE PROPERTY BOUNDARY.

13. TURF ESTABLISHMENT PERIOD SHALL CONSIST OF THE FOLLOWING:

 (1) AGRONOMIC SOILS TEST - TEST LOCATIONS SHALL BE OBTAINED FROM IMPORTED TOPSOIL.

 (3) THREE FERTILIZER APPLICATIONS - FERTILIZER SHALL BE DEFINED BY THE RECOMMENDATIONS FROM THE SOILS TEST LAB. CONTRACTOR SHALL SUBMIT TEST RESULT AND FERTILIZER CUT SHEETS FOR APPROVAL. APPLICATIONS SHALL OCCUR AT:

- INITIAL TIME OF PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT
- 1 MONTH AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
- 2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT

CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM, WEEF FREE, 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEEF CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE THE ESTABLISHMENT OF THE TURF AFTER ALL REQUIREMENTS ARE MET. CONTRACTOR SHALL THEN APPLY ONE FINAL BROADCAST SPECIFIC HERBICIDE APPLICATION TO LAWN.

14. CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.






















15. ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOIL INSTALLED (AS PER SPECIFICATIONS) FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. ALSO SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.

16. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEFACING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, TREES, AND ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.

17. PRIOR TO STREET/PUBLIC TREE INSTALLATION, PRUNING OR REMOVAL PLEASE HAVE THE CONTRACTED LICENSED CERTIFIED ARBORIST SUBMIT A COMPLETE PUBLIC TREE PERMIT APPLICATIONS AT LEAST 10 DAYS PRIOR TO WORK BEING PERFORMED FOR THIS PROJECT, TO INCLUDE CERTIFICATED ARBORIST INFORMATION AND START AND COMPLETION DATES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE CITIES REQUIREMENTS FOR STREET TREE PERMITS.

18. NO TREE SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY DRIVEWAY, ALLEY, STREET LIGHT, UTILITY POLE, UNDERGROUND UTILITY, NON-SAFETY STREET SIGN OR FIRE HYDRANT. NO TREE SHALL BE PLANTED WITHIN TWENTY (20) FEET OF A CRITICAL STREET SAFETY SIGN. NO TREE SHALL BE PLANTED WITHIN TEN (10) FEET OF A CURB DROP FOR STORM WATER. THE POTENTIAL PLACEMENT OF STREET SIGNS, STREET LIGHTS AND UTILITY POLES SHALL BE EVALUATED TO LESSEN THE CONFLICT WITH THE GROWTH OF EXISTING STREET TREES.

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	2" CAL.	18
	CM	CORNUS KOUSA 'MILKY WAY'	MILKY WAY KOUSA DOGWOOD	2" CAL.	5
	GB	GINKGO BILOBA 'AUTUMN GOLD' TM	MAIDENHAIR TREE	2" CAL.	7
	GF	GINKGO BILOBA 'FASTIGIATA'	FASTIGIATE MAIDENHAIR TREE	2" CAL.	11
	GSZ	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER LOCUST	2" CAL.	8
	LE	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	6
	MG	METASEQUOIA GLYPTOSTROBODES	DAWN REDWOOD	6-8 FT.	3
	PF	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID PINE	6-8 FT.	2
	PB	PLATANUS X ACERIFOLIA 'BLOODGOOD'	LONDON PLANE TREE	2" CAL.	3
	SP	SYRINGA PEKINENSIS TM	PEKING TREE LILAC	2" CAL.	12
	TT	TILIA TOMENTOSA 'STERLING'	STERLING SILVER LINDEN	2" CAL.	8

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QT.
	AH	ACHNATHERUM HYMENOIDES	INDIAN RICE GRASS	1 GAL.	87
	AS	AGASTACHE X `SUMMER LOVE`	SUMMER LOVE HYSSOP	1 GAL.	45
	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
	CK	CORNUS SERICEA `KELSEY`	KELSEYI DOGWOOD	3 GAL.	62
	EP	ECHINACEA PURPUREA `TIKI TORCH`	PURPLE CONEFLOWER	1 GAL.	70
	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	245
	HO	HEMEROCALLIS X `STELLA DE ORO`	STELLA DE ORO DAYLILY	1 GAL.	19
	HD	HOLODISCUS DISCOLOR	OCEAN-SPRAY	5 GAL.	3
	JE	JUNCUS EFFUSUS `OCCIDENTAL BLUE`	OCCIDENTAL BLUE RUSH	1 GAL.	65
	LC	LEYMUS CINEREUS	GREAT BASIN WILDRYE	1 GAL.	70
	LS	LIATRIS SPICATA `KOBOLD`	SPIKE GAYFEATHER	1 GAL.	109
	MR	MAHONIA REPENS	CREEPING MAHONIA	1 GAL.	48
	MS	MISCANTHUS SINENSIS `GRAZIELLA`	GRAZIELLA MAIDEN GRASS	1 GAL.	202
	PV	PANICUM VIRGATUM `SHENANDOAH`	SWITCH GRASS	1 GAL.	50
	PA	PENNISETUM ALOPECUROIDES `HAMELN`	HAMELN DWARF FOUNTAIN GRASS	1 GAL.	514
	PM	PHYSOCARPUS OPULIFOLIUS `MONLO` TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS `SMPOTW`	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA `PINK BEAUTY`	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA `INDIAN SUMMER`	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS `SIOUX BLUE`	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA `LITTLE PRINCESS`	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

#

L.#

DETAIL NUMBER

PAGE NUMBER

DETAIL CALLOUT

PB

1

PLANT SYMBOL

QUANTITY

PLANT CALLOUT

LAWN - SEE SPECIFICATIONS - BASE BID SEED - ALTERNATE #5 SOD

PLANTER AREA

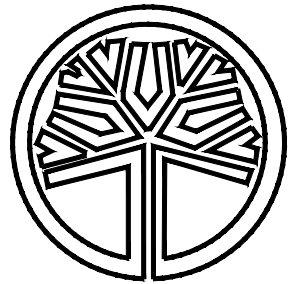
3" ROUND RIVER COBBLE (TO MATCH HOWARD ST PROMENADE BIOSWALES)


SHOVEL CUT EDGE

5' WIDE BARK TREE RING WITH SHOVEL CUT ON ALL PROPOSED TREES IN TURF AREAS (SEE PLANTING DETAIL 3/L6.9)

5' WIDE BARK TREE RING WITHOUT SHOVEL CUT ON ALL EXISTING TREES IN TURF AREAS (SEE PLANTING DETAIL 3/L6.9)

DESCRIPTION	REQUIRED PER CODE	PROVIDED PER PLANS
NO. OF PARKING STALLS TO TREE RATIO	1 TREE / 6 PARKING SPACES	1 TREE / 4.59 PARKING SPACES
MATURE TREE CANOPY SF TO HARDSCAPE SF PERCENTAGE.	10% TREE CANOPY SF OF TOTAL HARDSCAPE SF	38% TREE CANOPY SF OF TOTAL HARDSCAPE SF
NO. OF TREES	26 TREES REQUIRED PER CODE	34 TREE PROVIDED PER PLANS
TOTAL NO. OF PARKING SPACES PROVIDED PER PLANS EQUAL TO (156).		



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DELL R. HATCH
CERTIFICATE NO. 1162

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER	DRAWING NUMBER
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	L4.4
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P#: 1 OF	REVISION NO.:
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FILE NAME: _____

DATE: Jul 03, 2019 - 12:36pm by: jculp

[illegible]

LOCATION		SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION	SEE SHEET V1.0	HORIZONTAL 1"= 20'-0"	
CBM NO.	N/A NAVD 88	VERTICAL	
CITY DATUM		SCALE	

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
07.03.19	DRAWN JC/PO
07.03.19	DESIGNED BL
	CHECKED
	APPROVED

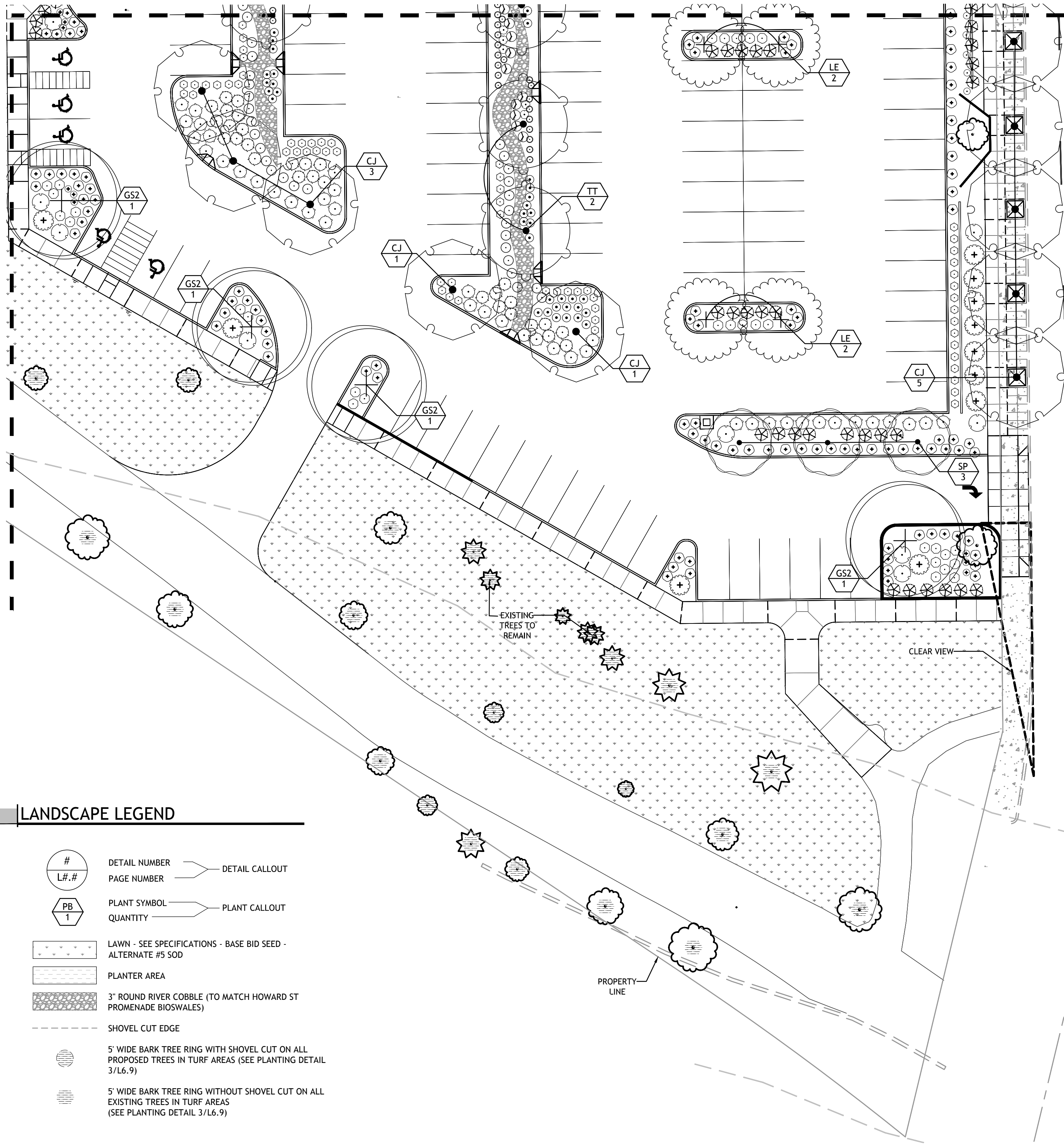
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	PLANTING PLAN - AREA V 7.03.2019

MATCHLINE - SEE SHEET L4.3

MATCHLINE - SEE SHEET L4.4



LANDSCAPE LEGEND

- # L#. # DETAIL NUMBER PAGE NUMBER DETAIL CALLOUT
- PB 1 PLANT SYMBOL QUANTITY PLANT CALLOUT
- LAWN - SEE SPECIFICATIONS - BASE BID SEED - ALTERNATE #5 SOD
- PLANTER AREA
- 3" ROUND RIVER COBBLE (TO MATCH HOWARD ST PROMENADE BIOSWALES)
- SHOVEL CUT EDGE
- 5' WIDE BARK TREE RING WITH SHOVEL CUT ON ALL PROPOSED TREES IN TURF AREAS (SEE PLANTING DETAIL 3/L6.9)
- 5' WIDE BARK TREE RING WITHOUT SHOVEL CUT ON ALL EXISTING TREES IN TURF AREAS (SEE PLANTING DETAIL 3/L6.9)

1 PLANTING PLAN - AREA VI

SCALE: 1" = 20'-0"

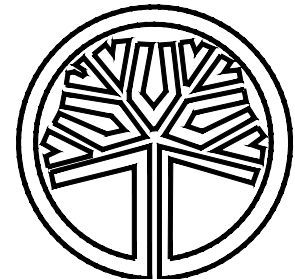
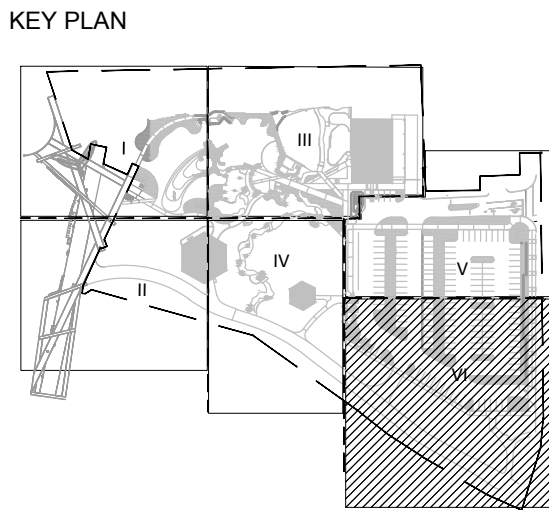
PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
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GB	GB	GINKGO BILOBA 'AUTUMN GOLD' TM	MAIDENHAIR TREE	2" CAL.	7
GF	GF	GINKGO BILOBA 'FASTIGIATA'	FASTIGIATE MAIDENHAIR TREE	2" CAL.	11
GS2	GS2	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER LOCUST	2" CAL.	8
LE	LE	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	6
MG	MG	METASEQUOIA GLYPTOSTROBODES	DAWN REDWOOD	6-8 FT.	3
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○	AS	AGASTACHE X 'SUMMER LOVE'	SUMMER LOVE HYSSOP	1 GAL.	45
○	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
○	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
○	CK	CORNUS SERICEA 'KELSEY'	KELSEY DOGWOOD	3 GAL.	62
○	EP	ECHINACEA PURPUREA 'TIKI TORCH'	PURPLE CONEFLOWER	1 GAL.	70
○	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	249
○	HO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.	19
○	HD	HOLODISCUS DISCOLOR	OCEAN-SPRAY	5 GAL.	3
○	JE	JUNCUS EFFUSUS 'OCCIDENTAL BLUE'	OCCIDENTAL BLUE RUSH	1 GAL.	65
○	LC	LEYMUS CINEREUS	GREAT BASIN WILDRYE	1 GAL.	70
○	LS	LIATRIS SPICATA 'KOBOLD'	SPIKE GAYFEATHER	1 GAL.	109
○	MR	MAHONIA REPENS	CREEPING MAHONIA	1 GAL.	48
○	MS	MISCANTHUS SINENSIS 'GRAZIELLA'	GRAZIELLA MAIDEN GRASS	1 GAL.	202
○	PV	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	1 GAL.	50
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○	PM	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO PURPLE NINEBARK	5 GAL.	30
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○	SJ	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

CODE CALCULATIONS

DESCRIPTION	REQUIRED PER CODE	PROVIDED PER PLANS
NO. OF PARKING STALLS TO TREE RATIO	1 TREE / 6 PARKING SPACES	1 TREE / 4.59 PARKING SPACES
MATURE TREE CANOPY SF TO HARDSCAPE SF PERCENTAGE.	10% TREE CANOPY SF OF TOTAL HARDSCAPE SF	38% TREE CANOPY SF OF TOTAL HARDSCAPE SF
NO. OF TREES	26 TREES REQUIRED PER CODE	34 TREE PROVIDED PER PLANS
TOTAL NO. OF PARKING SPACES PROVIDED PER PLANS EQUAL TO (156).		



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L4.5

REVISION NO.

DATE: Jul 03, 2019 - 12:37pm by: jculp

FILE NAME:

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL 1"= 20'-0"
CBM NO. N/A	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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07.03.19 DRAWN JG/PO	DESIGNED BL
07.03.19 CHECKED	APPROVED

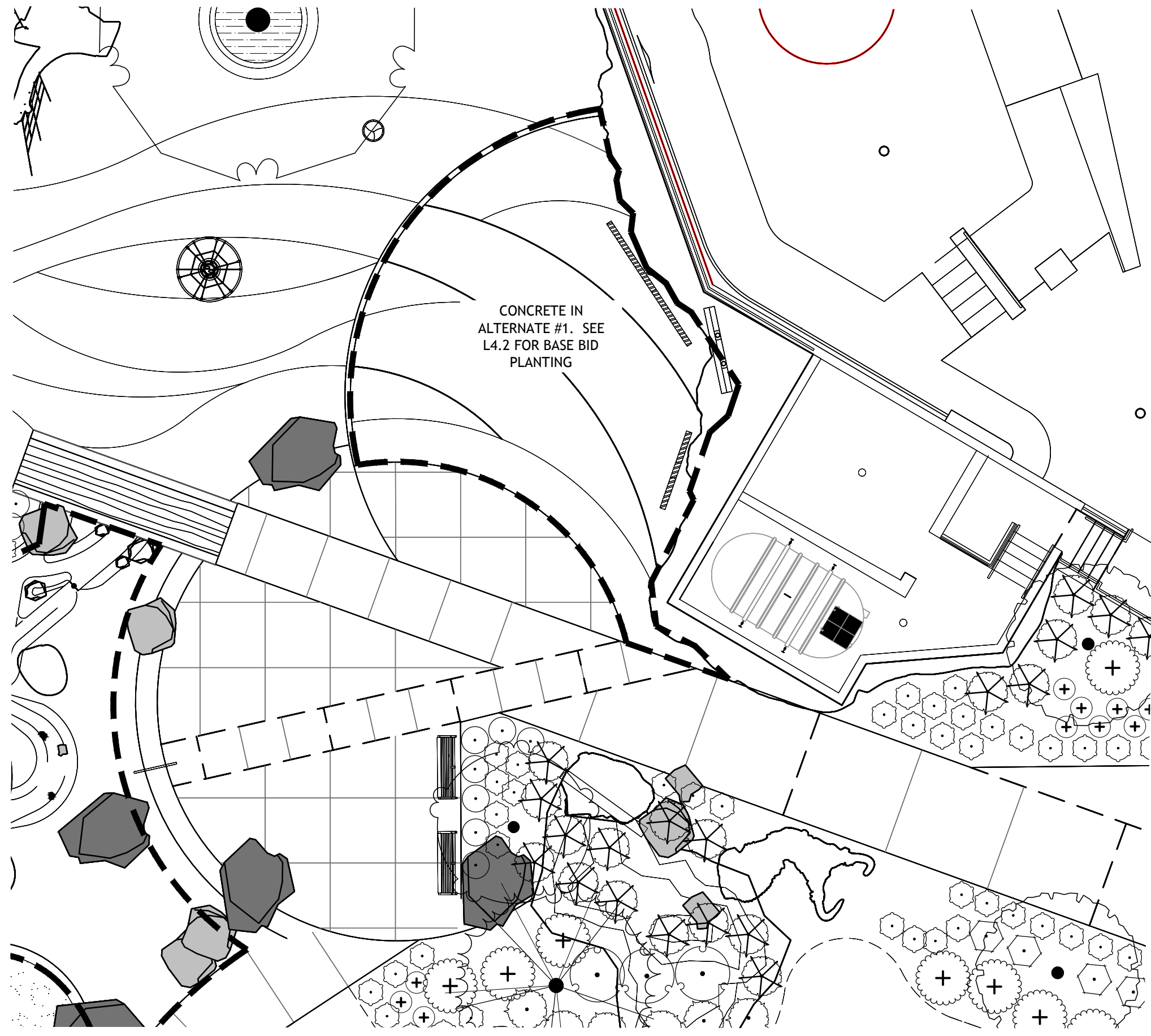
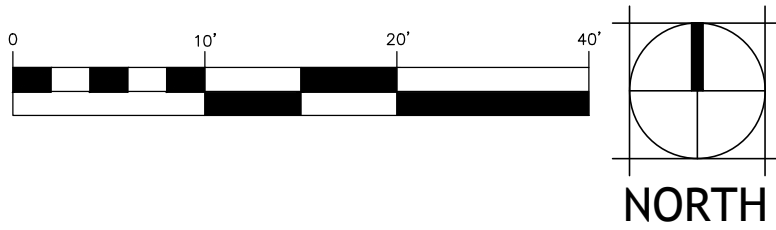


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

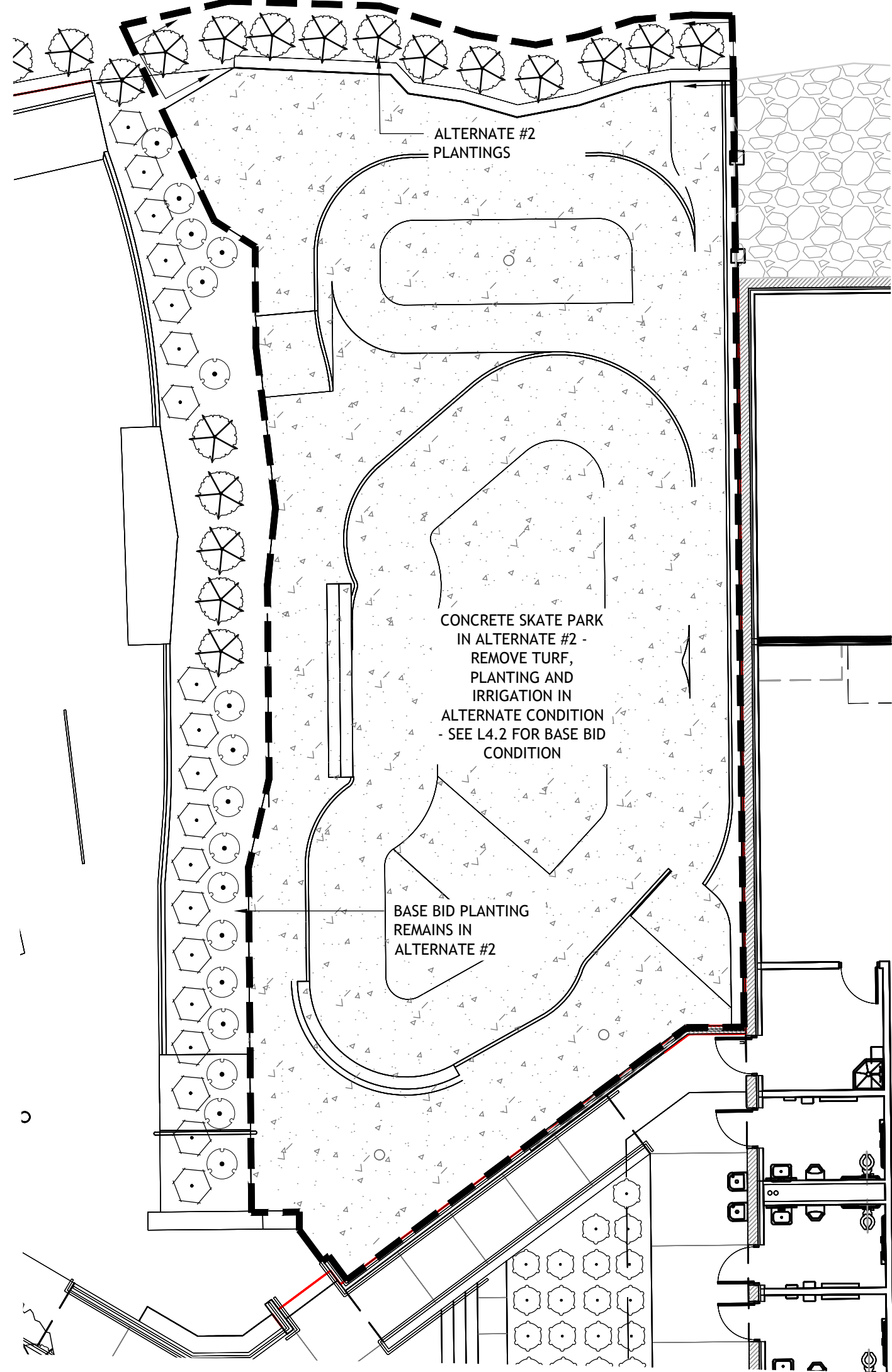
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: PLANTING PLAN - AREA VI
7.03.2019



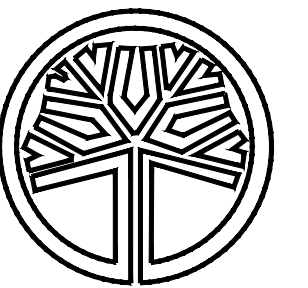
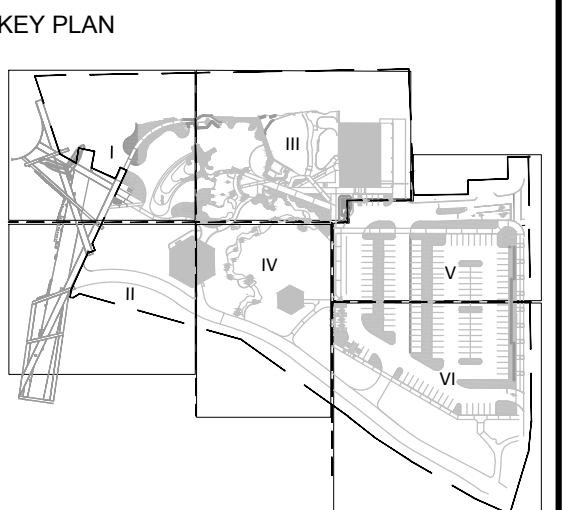
1 SAND PLAY & BRAIDED STREAM ENLARG. - ALT. #1
SCALE: 1" = 10'-0"



2 SPLASH PAD & ENTRY PAVING ENLARG. - ALT. #1
SCALE: 1" = 10'-0"



3 SKATE PARK - ALTERNATE #2
SCALE: 1" = 10'-0"



DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	L4.6
FILE NAME:	

BY	REVISIONS	DATE

B W A	BERNARDO WILLS
ARCHITECTS PC	

LOCATION	SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION	SEE SHEET V1.0
CBM NO.	N/A
CITY DATUM	NAVD 88
HORIZONTAL	1/4"=1'-0"
VERTICAL	
SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
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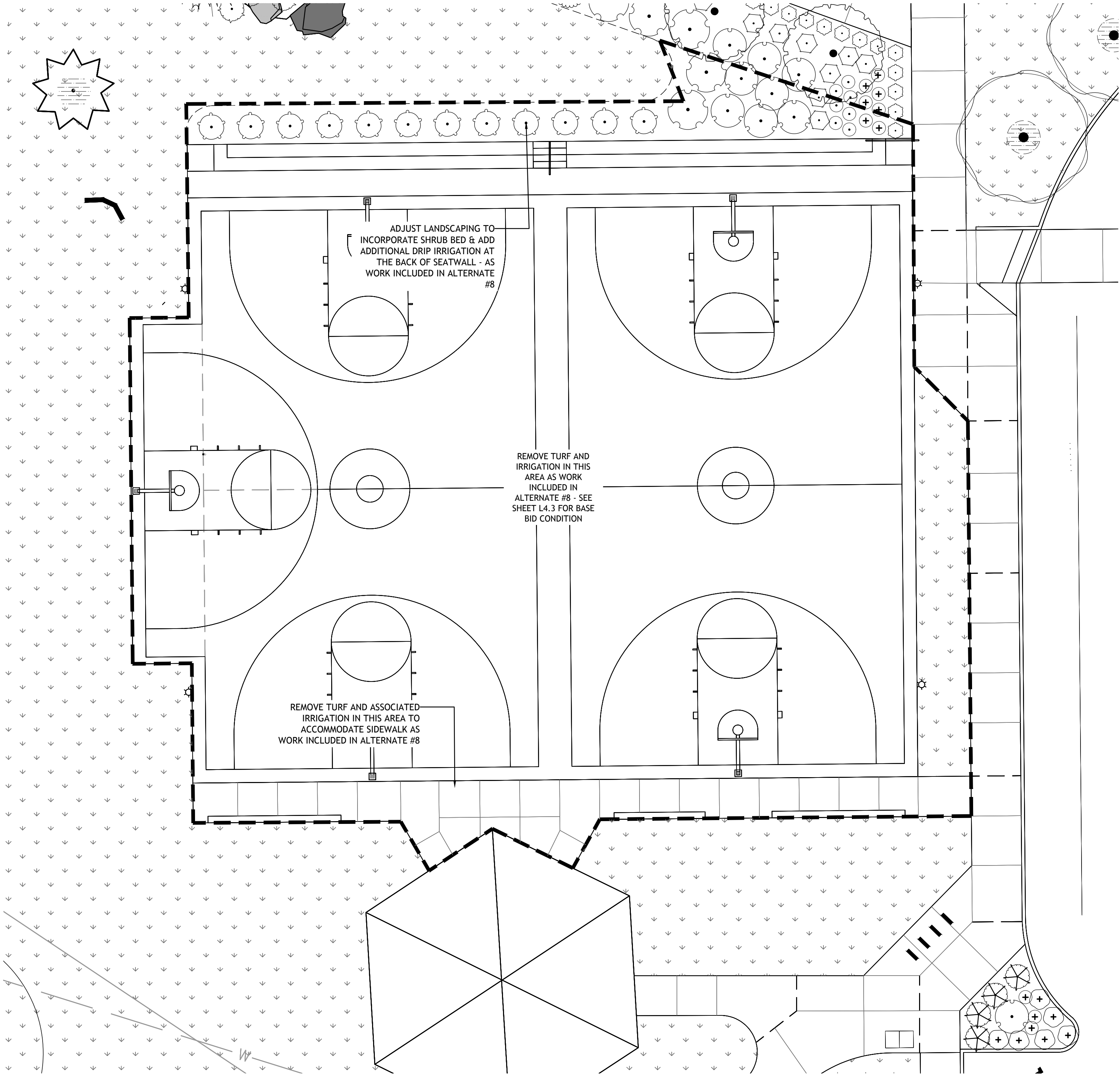
CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
07.03.19	DRAWN JC/PO
07.03.19	DESIGNED BL
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	PLANTING ENLARGEMENT 7.03.2019

DATE: Jul 03, 2019 - 12:38pm by: jculp

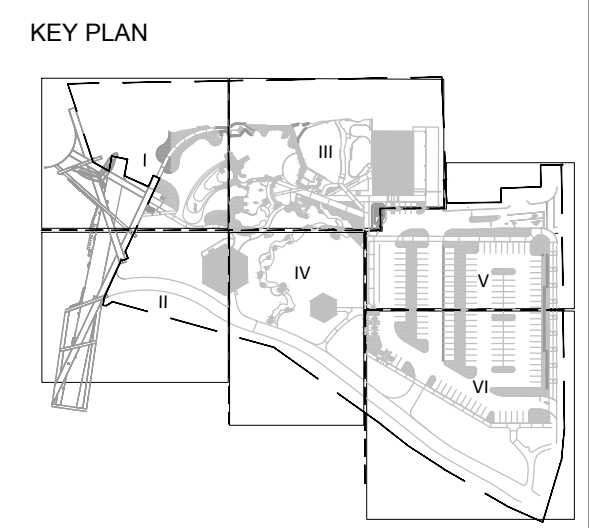


PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
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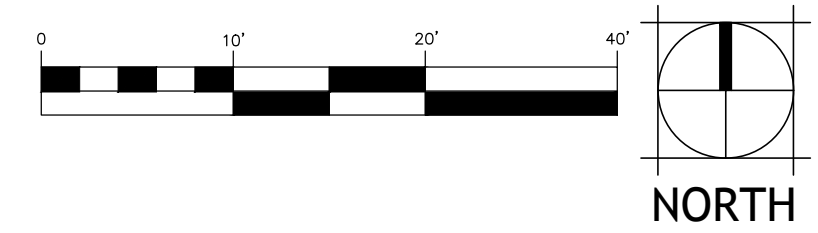
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
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	AS	AGASTACHE X 'SUMMER LOVE'	SUMMER LOVE HYSSOP	1 GAL.	45
	CA	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	2 GAL.	70
	CS	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL.	10
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	LS	LIATRIS SPICATA 'KOBOLD'	SPIKE GAYFEATHER	1 GAL.	109
	MR	MAHONIA REPENS	CREeping MAHONIA	1 GAL.	48
	MS	MISCANTHUS SINENSIS 'GRAZIELLA'	GRAZIELLA MAIDEN GRASS	1 GAL.	202
	PV	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	1 GAL.	50
	PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	1 GAL.	514
	PM	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO PURPLE NINEBARK	5 GAL.	30
	PO	PHYSOCARPUS OPULIFOLIUS 'SMPOTW'	TINY WINE NINEBARK	5 GAL.	40
	PF	POTENTILLA FRUTICOSA 'PINK BEAUTY'	PINK BEAUTY POTENTILLA	3 GAL.	71
	RH	RUDBECKIA HIRTA 'INDIAN SUMMER'	GLORIOSA DAISY	1 GAL.	37
	SN	SORGHASTRUM NUTANS 'SIOUX BLUE'	BLUE INDIAN GRASS	1 GAL.	6
	SJ	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS JAPANESE SPIREA	3 GAL.	88

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811 OR
(800)342-1585
CALL TWO BUSINESS DAYS BEFORE YOU DIG



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

1 BASKETBALL ENLARGMENT - ALT #8A AND 8B
SCALE: 1" = 10'-0"



BY

REVISIONS

DATE

B W A

BERNARDO WILLS

ARCHITECTS PC

LOCATION

SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION

SEE SHEET V1.0

CBM NO.

N/A

CITY DATUM

SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS

CCS - ADOPTED 2/95

07.03.19

DRAWN

JG/PO

07.03.19

DESIGNED

BL

CHECKED

APPROVED

CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.

SPOKANE, WASHINGTON 99201-3343

(509) 625-6200

PROJECT TITLE:

RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET

SHEET TITLE:

PLANTING ENLARGEMENT 7.03.2019

TYPE OF IMPROVEMENT:

PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L4.7

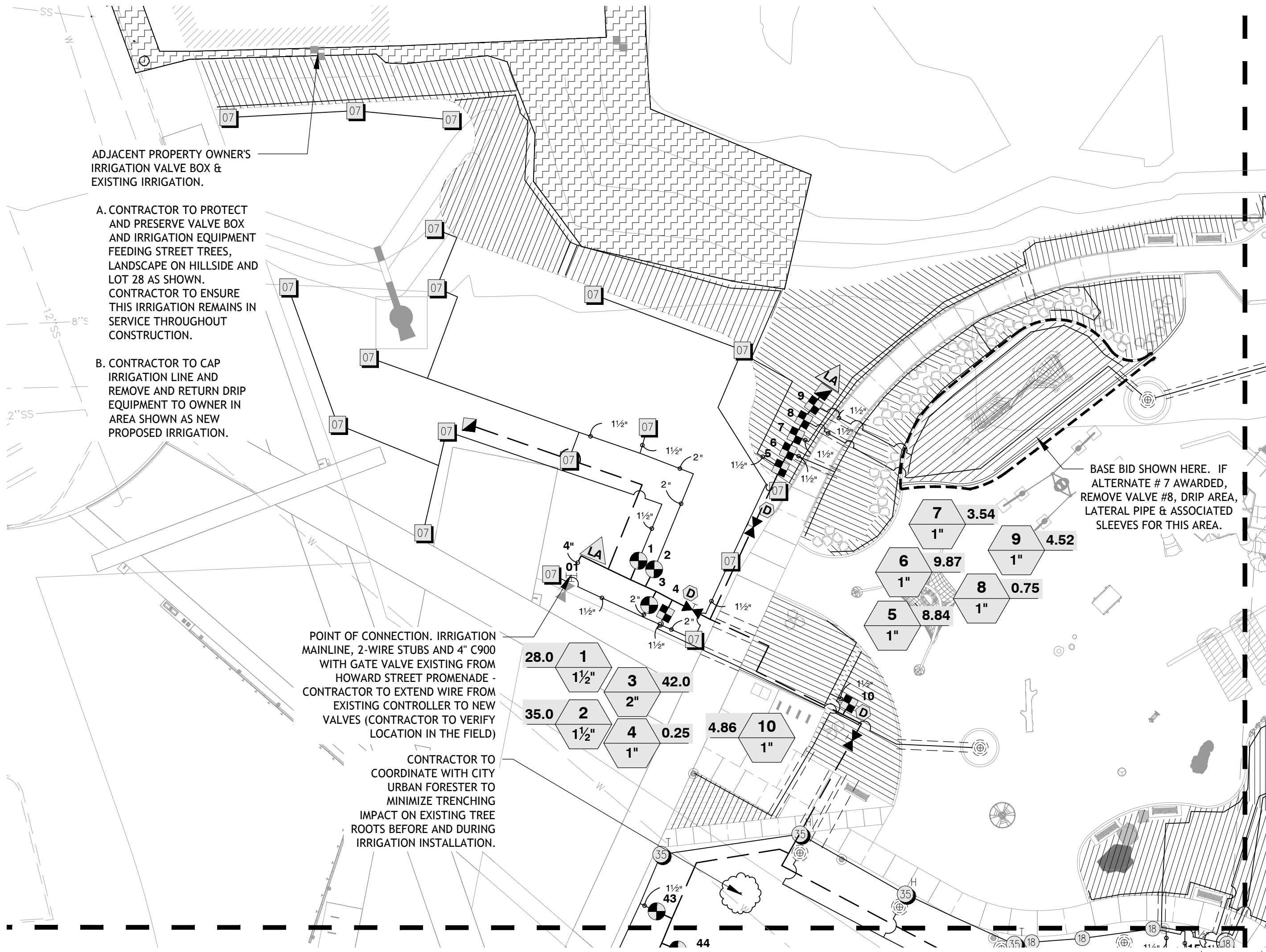
DATE:

Jul 03, 2019 - 12:39pm

by:

jculp

FILE NAME:



1 IRRIGATION PLAN - AREA I

SCALE: 1" = 20'-0"

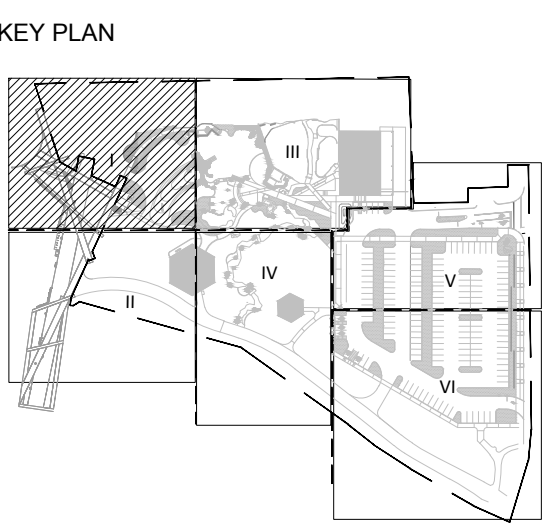
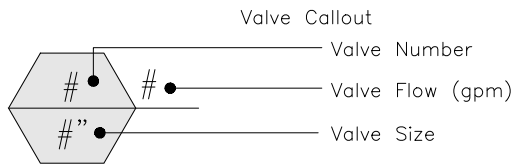
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- CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING LAWNS AND LANDSCAPE ALIVE AND THRIVING DURING ALL PHASES OF CONSTRUCTION. ANY LANDSCAPE AND TURF GRASS AREAS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL PATCH AND REPAIR EXISTING IRRIGATION SYSTEM AS REQUIRED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- USE KING BROTHERS (KB) VALVE OR IN HEAD DRAIN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE EVER IT OCCURS.
- IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE INSULATED DIRECT BURIAL SINGLE CONDUCTOR PE IRRIGATION WIRE. 2 SPARE WIRES SHALL BE INSTALLED THROUGHOUT THE ENTIRE IRRIGATION SYSTEM AND BE OF A UNIQUE COLOR (ORANGE).

- ALL 24 VOLT WIRING UNDER PATHWAYS, PAVING AND ROADWAYS SHALL BE IN A SEPARATE 2" SLEEVE, UNLESS OTHERWISE NOTED ON PLAN, AT DEPTH & TYPE PER SPECIFICATIONS.
- ALL WIRE SPLICES TO BE DONE WITH SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER OR APPROVED EQUAL.
- CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN SCH. 40 PVC CONDUIT. SIZE TO FIT.
- TERMINATION OF UNUSED CONTROL WIRE SHALL BE COVERED WITH A WIRE NUT AND PLACED WITHIN SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER, AND PLACED IN A CONTROL VALVE BOX.
- ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL RANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.
- ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
- PLACE 'NON-POTABLE' PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.
- ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
- THE MAINLINE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE THE SAME SIZE PIPE AS EXITING THE CONTROL VALVE.
- CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE.
- ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VB ARE FLUSH WITH THE SLOPE.
- CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDSCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDSCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDSCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.
- INSTALL THE PRESSURE REGULATOR WHERE INDICATED WITH AN (") NEXT TO THE CONTROL VALVE SYMBOL AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.
- IRRIGATION SHALL BE ADJUSTED SO THAT NO OVERSPRAY HITS THE BUILDING, AND MINIMUM TO NO OVERSPRAY HITS SIDEWALKS, AND PAVEMENT.
- CONTRACTOR SHALL LOCATE AND TAP INTO EXISTING WATER SERVICE. VERIFY ALL MUNICIPAL REQUIREMENTS ARE MET.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
- EXISTING BASELINE CONTROLLER TO HAVE NEW ZONES PROGRAMMED BY CONTRACTOR.
- NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN CONDUIT.
- CONTRACTOR SHALL WINTERIZE THE SYSTEM WITH THE PARK MAINTENANCE STAFF PRESENT. COORDINATE WITH OWNER.
- THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.
- MOISTURE SENSORS SHALL BE INSTALLED PER MANUFACTURE'S DIRECTION. IRRIGATION ZONE WITH THE SENSOR IN IT SHALL BE A PRIMARY ZONE WHEN SCHEDULING THE IRRIGATION CONTROLLER. CONSULT MANUFACTURE'S DIRECTIONS FOR SCHEDULING CONTROLLER WITH THE USE OF PRIMARY ZONES. EXTEND IRRIGATION CONTROL WIRE TO MOISTURE SENSOR.
- LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 910 10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 910 10" ROUND VALVE BOX.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION ALONG HOWARD STREET PROMENADE DURING CONSTRUCTION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI		SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 1806-SAM-PRS ADJ 30				RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" (AS SHOWN)
	RAIN BIRD 1806-SAM-PRS HE-VAN SERIES 30				ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR MODULE AND BASELINE DIRECT BURIAL BICOORDERS, MODEL # BL-5201, BL-5202, BL-5204
	TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" MPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.				RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMO-PLASTIC RUBBER COVER, AND 2-PIECE BODY.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	
	HUNTER I-25-06-SS 50 4.30 41' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #4 YELLOW.	50	4.30	41'	SHUT OFF VALVE
	HUNTER I-25-06-SS 50 4.80 44' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #05 WHITE.	50	4.80	44'	RESILIENT WEDGE GATE VALVE
	HUNTER I-25-06-SS 50 7.00 47' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #08 LIGHT BROWN.	50	7.00	47'	MUELLER 2360 SERIES - 4" (UNLESS OTHERWISE NOTED)
	HUNTER I-25-06-SS 50 8.30 49' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #15 GREY.	50	8.30	49'	1" MANUAL DRAIN VALVE
	HUNTER I-25-06-SS 50 13.4 56' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #18 RED.	50	13.4	56'	PRESSURE REDUCING VALVE
	HUNTER I-25-06-SS 50 14.5 58' TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	14.5	58'	PRESSURE LIMITED TO 72.84 PSI
	RAIN BIRD 5006-PC-FC-MPR 45 25' TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT+RED, 30 FT+GREEN, 35FT-BEIGE.	25'			WILKINS-ZW209-4"
	RAIN BIRD 5006-PC-FC-MPR 45 35' TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT+RED, 30 FT+GREEN, 35FT-BEIGE.	35'			BASELINE BL-LA01
	RAIN BIRD XCZ-100-PRB-LC 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.				LIGHTNING ARRESTOR
	RAIN BIRD XCZ-150-PRB-COM 40PSI QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-40GPM.				POINT OF CONNECTION 4"
	TREE RING IRRIGATION 0.6 GPH @ 12" O.C. APPROX. 20 LF OF TUBING PER TREE				POINT OF CONNECTION 1 1/2" FOR BACKUP IRRIGATION
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.				FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION 1 1/2"
	NOTE: CONTRACTOR TO USE NETAFIM TL050MFV-1 AUTO-MATIC FLUSH VALVE, 1/2" MALE PIPE THREAD FOR DRIP IRRIGATION (A MIN. OF 1 PER ZONE, ADDITIONAL AS REQUIRED = 80 MIN.)				IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	EXISTING IRRIGATION				1" PIPE UNLESS OTHERWISE NOTED IN IRRIGATION PLAN - CONTRACTOR SHALL NOT USE 3/4" OR 1 1/4" PIPE SIZES
	EX. 4" C900 WITH GATE VALVE (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)				4" (UNLESS OTHERWISE NOTED) IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235
	EX. IRRIGATION METER (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)				PIPE SLEEVE: PVC SCHEDULE 40
	EX. IRRIGATION TO PROTECT AND PRESERVE ON ADJACENT PROPERTY. CONTRACTOR TO COORDINATE W/ OWNER PRIOR TO CONSTRUCTION. (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD - REFER TO D2.0 LANDSCAPE DEMOLITION PLAN AND CIVIL)				
	EX. DRIP VALVE/BOX				



UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

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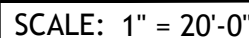
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DELL R. HATCH

CERTIFICATE NO. 1182

BY		REVISIONS		DATE		B W A BERNARDO WILLS ARCHITECTS PC		LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION		CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95		CITY OF SPOKANE		CITY OF SPOKANE, WASHINGTON DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200		PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		SHEET TITLE: IRRIGATION PLAN - AREA I 7.03.2019		DATE: Jul 02, 2019 - 3:47pm by: jcupo		DIGITALLY SIGNED:		TYPE OF IMPROVEMENT: PARK		CITY PURCHASING NUMBER		DRAWING NUMBER L5.0		FILE NAME:	
								ELEVATION SEE SHEET V1.0		HORIZONTAL 1"= 20'-0"		BAR IS ONE INCH ON ORIGINAL DRAWING.		07.03.19 DRAWN JC/PO		PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		SHEET TITLE: IRRIGATION PLAN - AREA I 7.03.2019		DATE: Jul 02, 2019 - 3:47pm by: jcupo		DIGITALLY SIGNED:		TYPE OF IMPROVEMENT: PARK		CITY PURCHASING NUMBER		DRAWING NUMBER L5.0		FILE NAME:	
								CBM NO. N/A		VERTICAL		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		07.03.19 DESIGNED BL		PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		SHEET TITLE: IRRIGATION PLAN - AREA I 7.03.2019		DATE: Jul 02, 2019 - 3:47pm by: jcupo		DIGITALLY SIGNED:		TYPE OF IMPROVEMENT: PARK		CITY PURCHASING NUMBER		DRAWING NUMBER L5.0		FILE NAME:	
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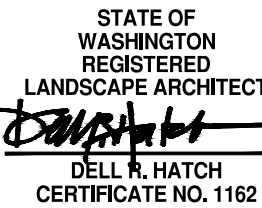


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28. ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL CHANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.
29. ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
30. PLACE "NON-POTABLE" PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.
31. ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
32. THE MAINLINE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE THE SAME SIZE PIPE AS EXITING THE CONTROL VALVE.
33. CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE.
34. ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VB ARE FLUSH WITH THE SLOPE.
35. CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.
36. INSTALL THE PRESSURE REGULATOR WHERE INDICATED WITH AN (*) NEXT TO THE CONTROL VALVE SYMBOL AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.
37. IRRIGATION SHALL BE ADJUSTED SO THAT NO OVERSPRAY HITS THE BUILDING, AND MINIMUM TO NO OVERSPRAY HITS SIDEWALKS, AND PAVEMENT.
38. CONTRACTOR SHALL LOCATE AND TAP INTO EXISTING WATER SERVICE. VERIFY ALL MUNICIPAL REQUIREMENTS ARE MET.
39. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
40. EXISTING BASELINE CONTROLLER TO HAVE NEW ZONES PROGRAMMED BY CONTRACTOR.
41. NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN CONDUIT.
42. CONTRACTOR SHALL WINTERIZE THE SYSTEM WITH THE PARK MAINTENANCE STAFF PRESENT. COORDINATE WITH OWNER.
43. THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.
44. IF IRRIGATION IS INSTALLED WITH THE MANUFACTURER'S DIRECTION OF FLOW IT SHALL BE A PRIMARY ZONE WHEN SCHEDULING THE IRRIGATION CONTROLLER. CONSULT MANUFACTURER'S DIRECTIONS FOR SCHEDULING CONTROLLER WITH THE USE OF PRIMARY ZONES. EXTEND IRRIGATION CONTROL WIRE TO MOISTURE SENSOR.
45. LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 910 10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 910 10" ROUND VALVE BOX.
46. CONTRACTOR TO PROTECT EXISTING IRRIGATION ALONG HOWARD STREET PROMENADE DURING CONSTRUCTION.

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-334
(509) 625-6200

DATE: Jul 02, 2019 - 3:47pm by: jculp



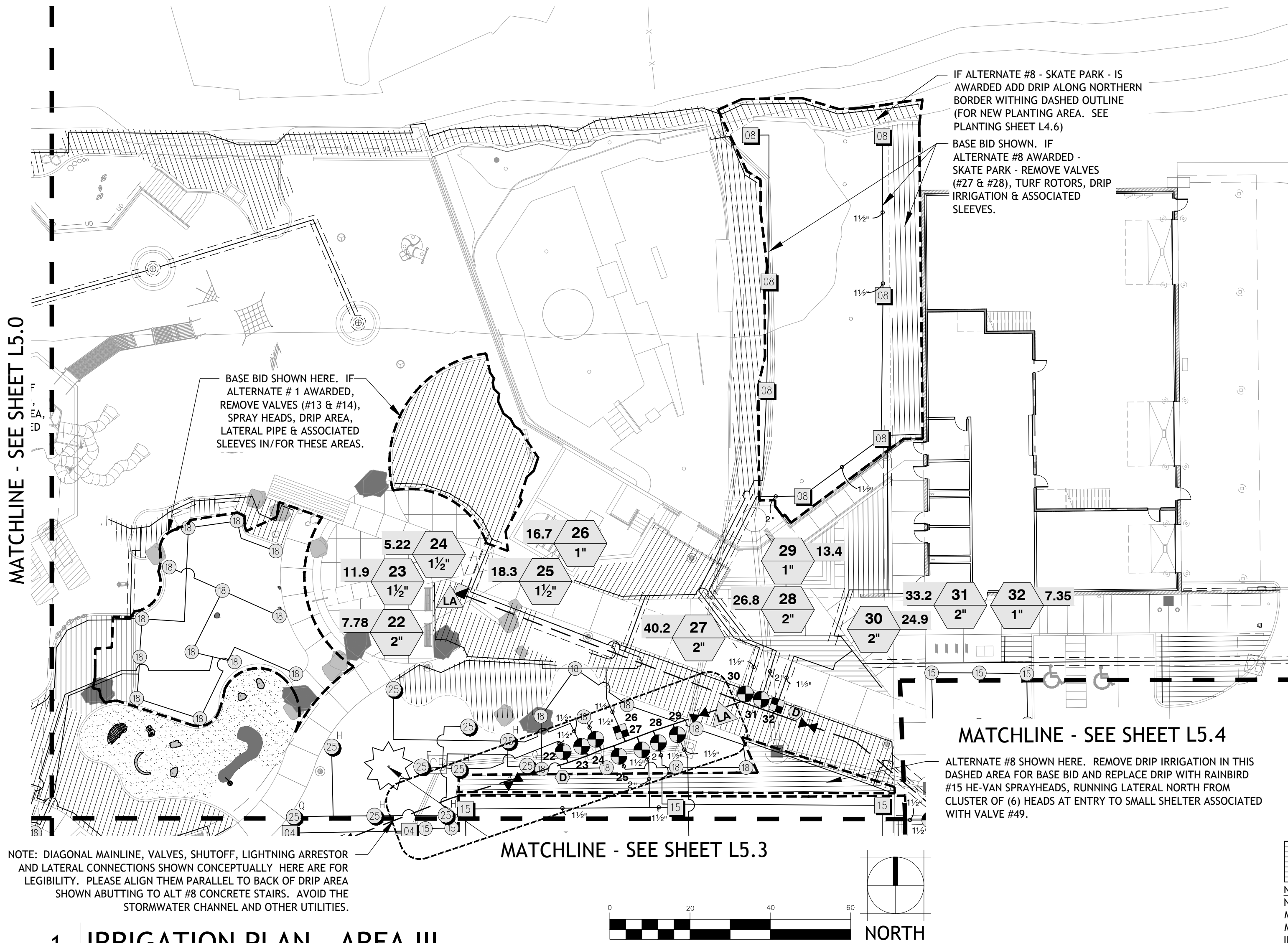
DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: P

CITY PURCHASING NUMBER

204 OF

FILE NAME:



1 IRRIGATION PLAN - AREA III

IRRIGATION NOTES

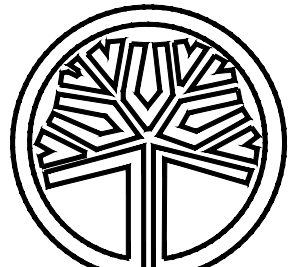
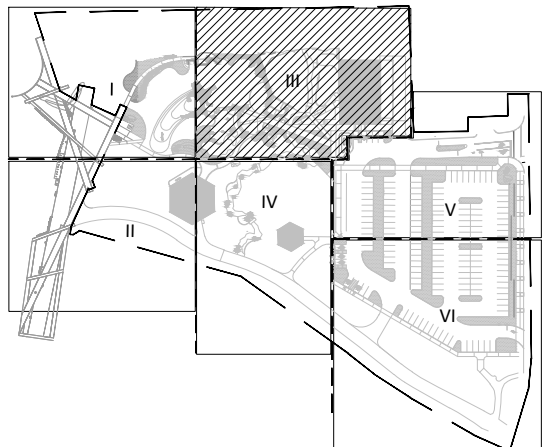
- ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN. THE FOREMAN SHALL REMAIN ON-SITE DURING ALL LANDSCAPE SOIL PREPARATION, IRRIGATION AND PLANTING INSTALLATIONS.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, AND ELECTRICAL ENGINEERING SHEETS.
- IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, OR LANDSCAPE AND TURF AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL ANNUAL IRRIGATION SCHEDULE AND SHALL AFFIX THE SCHEDULE INSIDE THE CONTROLLER CABINET DOOR.
- LOCATIONS OF EQUIPMENT SHALL BE APPROVED IN THE FIELD WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- CONTRACTOR SHALL SUPPLY 'AS-BUILT' DRAWINGS TO THE OWNER PRIOR TO FINAL ACCEPTANCE. AS BUILT DRAWINGS SHALL BE IN BOTH PAPER FORM AND AUTOCAD DRAWING FORMAT SUBMITTED ON A CD.
- CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, EQUIPMENT AND HARDWARE NECESSARY FOR PRODUCTION, EXECUTION AND COMPLETION OF ALL IRRIGATION WORK.
- CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
- THE PROPOSED IRRIGATION SYSTEM IS DESIGNED BASED ON THE ASSUMPTION OF THE AVAILABILITY OF +/- 200 GPM FROM EXISTING SYSTEM AND TO OPERATE AT STATED PSI FOR EACH IRRIGATION HEAD IN IRRIGATION LEGEND ABOVE.
- CONTRACTOR SHALL VERIFY WORKING PSI FROM EXISTING SYSTEM (+/- PSI 72) AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION OF SYSTEM AND NOTIFY OWNER'S REPRESENTATIVE OF ANY FINDINGS.
- IRRIGATION HEAD LAYOUT SHALL BE PLACED AS DESIGNED. ALL CHANGES TO HEAD LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IRRIGATION PIPING IS DIAGRAMMATIC ONLY. MAINLINES, LATERALS, SLEEVES AND WIRES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL WHENEVER POSSIBLE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PERFORM WATER COVERAGE TEST WITH LANDSCAPE ARCHITECT PRESENT PRIOR TO SEEDING/SODDING TURF. IF NECESSARY ADJUST IRRIGATION SO 100% COVERAGE IS MET.
- ALL DISTURBED AREAS SHALL BE SODDED AND RECEIVE TEMPORARY IRRIGATION THROUGHOUT THE WARRANTY PERIOD UNLESS OTHERWISE INDICATED.
- ALL EXISTING GRASS REMOVED FOR TRENCHING SHALL BE SAVED FOR REPLACEMENT. IF, AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE, THE SAVED GRASS DOES NOT SEEM ALIVE THEN NEW SOD SHALL BE INSTALLED IN ITS PLACE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING LAWNS AND LANDSCAPE ALIVE AND THRIVING DURING ALL PHASES OF CONSTRUCTION. ANY LANDSCAPE AND TURF GRASS AREAS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL PATCH AND REPAIR EXISTING IRRIGATION SYSTEM AS REQUIRED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- USE KING BROTHERS (KB) VALVE OR IN HEAD DRAIN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE EVER IT OCCURS.
- IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE INSULATED DIRECT BURIAL SINGLE CONDUCTOR PE IRRIGATION WIRE. 2 SPARE WIRES SHALL BE INSTALLED THROUGHOUT THE ENTIRE IRRIGATION SYSTEM AND BE OF A UNIQUE COLOR (ORANGE).

- ALL 24 VOLT WIRING UNDER PATHWAYS, PAVING AND ROADWAYS SHALL BE IN A SEPARATE 2" SLEEVE, UNLESS OTHERWISE NOTED ON PLAN, AT DEPTH & TYPE PER SPECIFICATIONS.
- ALL WIRE SPLICES TO BE DONE WITH SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER OR APPROVED EQUAL.
- CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN SCH. 40 PVC CONDUIT. SIZE TO FIT.
- TERMINATION OF UNUSED CONTROL WIRE SHALL BE COVERED WITH A WIRE NUT AND PLACED WITHIN SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER, AND PLACED IN A CONTROL VALVE BOX.
- ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL RANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.
- ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
- PLACE 'NON-POTABLE' PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.
- ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
- THE MAINLINE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE THE SAME SIZE PIPE AS EXITING THE CONTROL VALVE.
- CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE.
- ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VB ARE FLUSH WITH THE SLOPE.
- CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDSCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDSCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDSCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.
- INSTALL THE PRESSURE REGULATOR WHERE INDICATED WITH AN (*) NEXT TO THE CONTROL VALVE SYMBOL AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.
- IRRIGATION SHALL BE ADJUSTED SO THAT NO OVERSPRAY HITS THE BUILDING, AND MINIMUM TO NO OVERSPRAY HITS SIDEWALKS, AND PAVEMENT.
- CONTRACTOR SHALL LOCATE AND TAP INTO EXISTING WATER SERVICE. VERIFY ALL MUNICIPAL REQUIREMENTS ARE MET.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
- EXISTING BASELINE CONTROLLER TO HAVE NEW ZONES PROGRAMMED BY CONTRACTOR.
- NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN CONDUIT.
- CONTRACTOR SHALL WINTERIZE THE SYSTEM WITH THE PARK MAINTENANCE STAFF PRESENT. COORDINATE WITH OWNER.
- THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.
- MOISTURE SENSORS SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS. IRRIGATION ZONE WITH THE SENSOR IN IT SHALL BE A PRIMARY ZONE WHEN SCHEDULING THE IRRIGATION CONTROLLER. CONSULT MANUFACTURER'S DIRECTIONS FOR SCHEDULING CONTROLLER WITH THE USE OF PRIMARY ZONES. EXTEND IRRIGATION CONTROL WIRE TO MOISTURE SENSOR.
- LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 910 10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 910 10" ROUND VALVE BOX.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION ALONG HOWARD STREET PROMENADE DURING CONSTRUCTION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
	RAIN BIRD 1806-SAM-PRS ADJ 18V	30		RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" (AS SHOWN)		
	RAIN BIRD 1806-SAM-PRS HE-VAN	30		ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR MODULE AND BASELINE DIRECT BURIAL BICODERS, MODEL # BL-5201, BL-5202, BL-5204		
	TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.			RAIN BIRD 44-LRC 1" BRASS QUICK-COUPPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMO-PLASTIC RUBBER COVER, AND 2-PIECE BODY.		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #4 YELLOW.	50	4.30	41'		SHUT OFF VALVE
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #05 WHITE.	50	4.80	44'		RESILIENT WEDGE GATE VALVE
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #08 LIGHT BROWN.	50	7.00	47'		MUELLER 2360 SERIES - 4" (UNLESS OTHERWISE NOTED)
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #15 GREY.	50	8.30	49'		1" MANUAL DRAIN VALVE
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #18 RED.	50	13.4	56'		PRESSURE REDUCING VALVE
	HUNTER I-25-06-SS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	14.5	58'		PRESSURE LIMITED TO 72.84 PSI WILKINS-ZW209-4
	RAIN BIRD 5006-PC,FC-MPR 45 TURF ROTOR, 6.0" POP-UP. PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.	25'				BASELINE BL-LA01 LIGHTNING ARRESTOR
	RAIN BIRD 5006-PC,FC-MPR 45 TURF ROTOR, 6.0" POP-UP. PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.	35'				POINT OF CONNECTION 4"
SYMBOL	MANUFACTURER/MODEL					POINT OF CONNECTION 1 1/2" FOR BACKUP IRRIGATION
	RAIN BIRD XCZ-100-PRB-LC WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.					FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION 1 1/2"
	RAIN BIRD XCZ-150-PRB-COM HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES 1-1/2" PEB VALVE WITH TWO 1" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-40GPM.					IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1" PIPE UNLESS OTHERWISE NOTED IN IRRIGATION PLAN - CONTRACTOR SHALL NOT USE 3/4" OR 1 1/4" PIPE SIZES
	TREE RING IRRIGATION .6 GPH @ 12" O.C. APPROX. 20 LF OF TUBING PER TREE					4" (UNLESS OTHERWISE NOTED) IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235
	AREA TO RECEIVE DRIPLINE NETAFIM T1CV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.					PIPE SLEEVE: PVC SCHEDULE 40
	EXISTING IRRIGATION					EX. 4" C900 WITH GATE VALVE (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)
	IRRIGATION METER					EX. IRRIGATION METER (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)
	IRRIGATION TO PROTECT AND PRESERVE ON ADJACENT PROPERTY. CONTRACTOR TO COORDINATE W/ OWNER PRIOR TO CONSTRUCTION. (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD - REFER TO D2.0 LANDSCAPE DEMOLITION PLAN AND CIVIL)					EX. DRIP VALVE/BOX
	Valve Callout					Valve Number
	Valve Flow (gpm)					Valve Size

KEY PLAN



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
BERNARDO
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L5.2

FILE NAME:

DATE: Jul 02, 2019 - 3:47pm by: jculp

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200



CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

07.03.19 DRAWN: JC/PO
07.03.19 DESIGNED: BL
CHECKED:
APPROVED:

LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION: SEE SHEET V1.0
HORIZONTAL: 1"= 20'-0"

CBM NO. N/A
NAVD 88

CITY DATUM
SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

B W A BERNARDO WILLS
ARCHITECTS PC

REVISIONS

DATE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
(18)	RAIN BIRD 1806-SAM-PRS ADJ	30
(18V)	RAIN BIRD 1806-SAM-PRS HE-VAN SERIES 30	
(8) OSHE-VAN (12) 12HE-VAN	TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	
(10) 10HE-VAN (15) 15HE-VAN		

MATCHLINE - SEE SHEET L5.2

CONTRACTOR TO COORDINATE WITH CITY URBAN FORESTER TO MINIMIZE TRENCING IMPACT ON EXISTING TREE ROOTS BEFORE AND DURING IRRIGATION INSTALLATION.

BASE BID SHOWN WITHIN DASHED AREA. IF ALTERNATE #8 AWARDED, REMOVE VALVES (#17, #24, #25, #26, #30, #49, #51), SPRAYHEADS, ROTORS, AND ASSOCIATED SLEEVES.

CHLINE - SEE SHEET L5.4

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
[Symbol]	HUNTER I-25-06-S5	50	4.30	41'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #4 YELLOW.			
[Symbol]	HUNTER I-25-06-S5	50	4.80	44'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #05 WHITE.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
[Symbol]	HUNTER I-25-06-S5	50	7.00	47'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #08 LIGHT BROWN.			
[Symbol]	HUNTER I-25-06-S5	50	8.30	49'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #15 GREY.			
[Symbol]	HUNTER I-25-06-S5	50	13.4	56'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #18 RED.			
[Symbol]	HUNTER I-25-06-S5	50	14.5	58'
[Symbol]	TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
[Symbol]	RAIN BIRD 5006-PC,FC-MPR 45	25'		
[Symbol]	TURF ROTOR, 6.0" POP-UP. PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.			
[Symbol]	RAIN BIRD 5006-PC,FC-MPR 45	35'		
[Symbol]	TURF ROTOR, 6.0" POP-UP. PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
[Symbol]	RAIN BIRD XCZ-100-PRB-LC			
[Symbol]	WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.			
[Symbol]	RAIN BIRD XCZ-150-PRB-COM			
[Symbol]	HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES 1-1/2" PESB VALVE WITH TWO 1" PRESSURE REGULATING HOSU QUICK RELEASE BASKET FILTER. 0.3GPM TO 20GPM.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
[Symbol]	RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" (AS SHOWN)			
[Symbol]	ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR MODULE AND BASELINE DIRECT BURIAL BICODERS, MODEL # BL-5201, BL-5202, BL-5204			
[Symbol]	RAIN BIRD 44-LRC			
[Symbol]	1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMO-PLASTIC RUBBER COVER, AND 2-PIECE BODY.			
[Symbol]	SHUT OFF VALVE			
[Symbol]	RESILIENT WEDGE GATE VALVE			
[Symbol]	MUELLER 2360 SERIES - 4" (UNLESS OTHERWISE NOTED)			
[Symbol]	1" MANUAL DRAIN VALVE			
[Symbol]	PRESSURE REDUCING VALVE			
[Symbol]	PRESSURE LIMITED TO 72.84 PSI			
[Symbol]	WILKINS-ZW209-4"			
[Symbol]	BASILINE BL-LA01			
[Symbol]	LIGHTNING ARRESTOR			
[Symbol]	POINT OF CONNECTION 4"			
[Symbol]	POINT OF CONNECTION 1 1/2" FOR BACKUP IRRIGATION			
[Symbol]	FEBCO 850 1-1/2"			
[Symbol]	DOUBLE CHECK BACKFLOW PREVENTION 1 1/2"			
[Symbol]	IRRIGATION LATERAL LINE: PVC SCHEDULE 40			
[Symbol]	1" PIPE UNLESS OTHERWISE NOTED IN IRRIGATION PLAN - CONTRACTOR SHALL NOT USE 3/4" OR 1 1/4" PIPE SIZES			
[Symbol]	4" (UNLESS OTHERWISE NOTED) IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235			
[Symbol]	PIPE SLEEVE: PVC SCHEDULE 40			



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811 OR
(800)342-1585
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SCALE: 1" = 20'-0"

MATCHLINE - SEE SHEET L5.4

MATCHLINE - SEE SHEET 15.5

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN. THE FOREMAN SHALL REMAIN ON-SITE DURING ALL LANDSCAPE SOIL PREPARATION, IRRIGATION AND PLANTING INSTALLATIONS.

2. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.

3. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR.

4. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, AND ELECTRICAL ENGINEERING SHEETS.

5. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT.

6. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, OR LANDSCAPE AND TURF AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL ANNUAL IRRIGATION SCHEDULE AND SHALL AFFIX THE SCHEDULE INSIDE THE CONTROLLER CABINET DOOR.

9. LOCATIONS OF EQUIPMENT SHALL BE APPROVED IN THE FIELD WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS TO THE OWNER PRIOR TO FINAL ACCEPTANCE. AS BUILT DRAWINGS SHALL BE IN BOTH PAPER FORM AND AUTOCAD DRAWING FORMAT SUBMITTED ON A CD.

11. CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, EQUIPMENT AND HARDWARE NECESSARY FOR PRODUCTION, EXECUTION AND COMPLETION OF ALL IRRIGATION WORK.

12. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.

13. THE PROPOSED IRRIGATION SYSTEM IS DESIGNED BASED ON THE ASSUMPTION OF THE AVAILABILITY OF +/- 200 GPM FROM EXISTING SYSTEM AND TO OPERATE AT STATED PSI FOR EACH IRRIGATION HEAD IN IRRIGATION LEGEND ABOVE.

14. CONTRACTOR SHALL VERIFY WORKING PSI FROM EXISTING SYSTEM (+/- PSI 72) AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION OF SYSTEM AND NOTIFY OWNER'S REPRESENTATIVE OF ANY FINDINGS.

15. IRRIGATION HEAD LAYOUT SHALL BE PLACED AS DESIGNED. ALL CHANGES TO HEAD LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IRRIGATION PIPING IS DIAGRAMMATIC ONLY. MAINLINES, LATERALS, SLEEVES AND WIRES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL WHENEVER POSSIBLE, UNLESS OTHERWISE NOTED.

16. CONTRACTOR SHALL PERFORM WATER COVERAGE TEST WITH LANDSCAPE ARCHITECT PRESENT PRIOR TO SEEDING/SODDING TURF. IF NECESSARY ADJUST IRRIGATION SO 100% COVERAGE IS MET.

17. ALL DISTURBED AREAS SHALL BE SODDED AND RECEIVE TEMPORARY IRRIGATION THROUGHOUT THE WARRANTY PERIOD UNLESS OTHERWISE INDICATED.

18. ALL EXISTING GRASS REMOVED FOR TRENCHING SHALL BE SAVED FOR REPLACEMENT. IF, AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE, THE SAVED GRASS DOES NOT SEEM ALIVE THEN NEW SOD SHALL BE INSTALLED IN ITS PLACE AT NO ADDITIONAL COST TO THE OWNER.

19. CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING LAWNS AND LANDSCAPE ALIVE AND THRIVING DURING ALL PHASES OF CONSTRUCTION. ANY LANDSCAPE AND TURF GRASS AREAS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.

20. CONTRACTOR SHALL PATCH AND REPAIR EXISTING IRRIGATION SYSTEM AS REQUIRED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

21. USE KING BROTHERS (KBI) VALVE OR IN HEAD DRAIN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE EVER IT OCCURS.

22. IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE INSULATED DIRECT BURIAL SINGLE CONDUCTOR PE IRRIGATION WIRE. 2 SPARE WIRES SHALL BE INSTALLED THROUGHOUT THE ENTIRE IRRIGATION SYSTEM AND BE OF A UNIQUE COLOR (ORANGE).

23. ALL 24 VOLT WIRING UNDER PATHWAYS, PAVING AND ROADWAYS SHALL BE IN A SEPARATE 2" SLEEVE, UNLESS OTHERWISE NOTED ON PLAN, AT DEPTH & TYPE PER SPECIFICATIONS.

24. ALL WIRE SPLICES TO BE DONE WITH SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER OR APPROVED EQUAL.

25. CONTROL WIRE NOT FOLLOWING MAINLINE TRENCH SHALL BE IN SCH. 40 PVC CONDUIT, SIZE TO FIT.

26. TERMINATION OF UNUSED CONTROL WIRE SHALL BE COVERED WITH A WIRE NUT AND PLACED WITHIN SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER, AND PLACED IN A CONTROL VALVE BOX.

27. ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL RANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.

28. ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.

29. PLACE NON-POTABLE PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.

30. ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER MANIFOLD SYSTEMS.

31. WHEN THE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE SAME SIZE PIPE AS EXISTING CONTROL VALVE.

32. CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE.

33. ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VB ARE FLUSH WITH THE SLOPE.

34. CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDSCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDSCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDSCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.

35. INSTALL THE PRESSURE REGULATOR WHERE INDICATED WITH AN (") NEXT TO THE CONTROL VALVE SYMBOL AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.

36. THE LOCATION SHALL BE JUSTIFIED THAT OVERSPRAY'S THE BUILDING AND MINIMUM TO 10 FEET FROM CURB.

37. CONTRACTOR SHALL LOCATE AND TAP INTO EXISTING WATER SERVICE. VERIFY ALL MUNICIPAL REQUIREMENTS ARE MET.

38. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.

39. EXISTING BASELINE CONTROLLER TO HAVE NEW ZONES PROGRAMMED BY CONTRACTOR.

40. NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN CONDUIT.

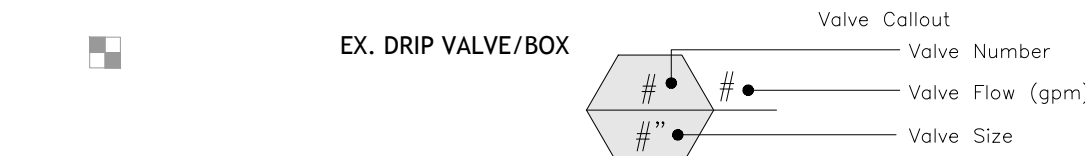
41. CONTRACTOR SHALL WINTERIZE THE SYSTEM WITH THE PARK MAINTENANCE STAFF PRESENT. COORDINATE WITH OWNER.

42. THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.

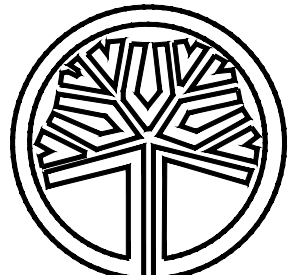
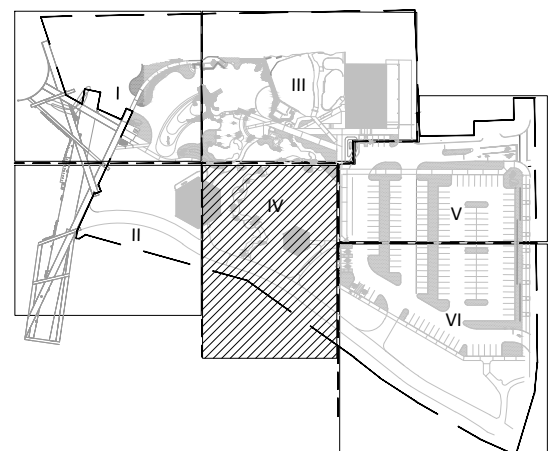
43. MOISTURE SENSORS SHALL BE INSTALLED PER MANUFACTURE'S DIRECTION. IRRIGATION ZONE WITH THE SENSOR IN IT SHALL BE A PRIMARY ZONE WHEN SCHEDULING THE IRRIGATION CONTROLLER. CONSULT MANUFACTURE'S DIRECTIONS FOR SCHEDULING.


44. LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 910 10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 910 10" ROUND VALVE BOX.

45. CONTRACTOR TO PROTECT EXISTING IRRIGATION ALONG HOWARD STREET PROMENADE DURING CONSTRUCTION.



KEY PLAN



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DELL R. HATCH
CERTIFICATE NO. 1162

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY/BUYING NUMBER	DRAWING NUMBER
--------------------	----------------

L5.3

P#:	1	OF	REVISION NO.:
FILE NAME:			

[illegible]

DATE: Jul 02, 2019 - 3:48pm by: jculp

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
	RAIN BIRD 1806-SAM-PRS ADJ 30	30		RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" (AS SHOWN)		
	RAIN BIRD 1806-SAM-PRS HE-VAN SERIES 30	30		ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR MODULE AND BASELINE DIRECT BURIAL BICODERS, MODEL # BL-5201, BL-5202, BL-5204		
	TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2" NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.			RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMO-PLASTIC RUBBER COVER, AND 2-PIECE BODY.		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER I-25-06-SS 50 4.30 41' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #4 YELLOW.	50	4.30	41'		SHUT OFF VALVE
	HUNTER I-25-06-SS 50 4.80 44' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #05 WHITE.	50	4.80	44'		RESILIENT WEDGE GATE VALVE
	HUNTER I-25-06-SS 50 7.00 47' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #08 LIGHT BROWN.	50	7.00	47'		MUELLER 2360 SERIES - 4" (UNLESS OTHERWISE NOTED)
	HUNTER I-25-06-SS 50 8.30 49' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #15 GREY.	50	8.30	49'		1" MANUAL DRAIN VALVE
	HUNTER I-25-06-SS 50 13.4 56' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #18 RED.	50	13.4	56'		PRESSURE REDUCING VALVE
	HUNTER I-25-06-SS 50 14.5 58' TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	14.5	58'		PRESSURE LIMITED TO 72.84 PSI
	RAIN BIRD 5006-PC-FC-MPR 45 25' TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.	25'				WILKINS-ZW209-4"
	RAIN BIRD 5006-PC-FC-MPR 45 35' TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.	35'				BASELINE BL-LA01
SYMBOL	MANUFACTURER/MODEL					LIGHTNING ARRESTOR
	RAIN BIRD XCZ-100-PRB-LC WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.					POINT OF CONNECTION 4"
	RAIN BIRD XCZ-150-PRB-COM HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES 1-1/2" PESB VALVE WITH TWO 1" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-40GPM.					POINT OF CONNECTION 1 1/2" FOR BACKUP IRRIGATION
	TREE RING IRRIGATION .6 GPH @ 12" O.C. APPROX. 20 LF OF TUBING PER TREE					FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION 1 1/2"
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.					IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1" PIPE UNLESS OTHERWISE NOTED IN IRRIGATION PLAN - CONTRACTOR SHALL NOT USE 3/4" OR 1 1/4" PIPE SIZES
	NOTE: CONTRACTOR TO USE NETAFIM TL050MFV-1 AUTOMATIC FLUSH VALVE, 1/2" MALE PIPE THREAD FOR DRIP IRRIGATION (A MIN. OF 1 PER ZONE, ADDITIONAL AS REQUIRED = 80 MIN.)					4" (UNLESS OTHERWISE NOTED) IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235
						PIPE SLEEVE: PVC SCHEDULE 40
						EX. 4" C900 WITH GATE VALVE (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)
						EX. IRRIGATION METER (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)
						EX. IRRIGATION TO PROTECT AND PRESERVE ON ADJACENT PROPERTY. CONTRACTOR TO COORDINATE W/ OWNER PRIOR TO CONSTRUCTION. (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD - REFER TO D2.0 LANDSCAPE DEMOLITION PLAN AND CIVIL.)
						EX. DRIP VALVE/BOX
						Valve Callout
						Valve Number
						Valve Flow (gpm)
						Valve Size

MATCHLINE - SEE SHEET L5.3

MATCHLINE - SEE SHEET L5.2

MATCHLINE - SEE SHEET L5.5

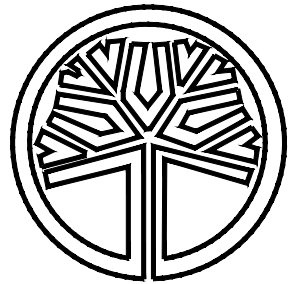
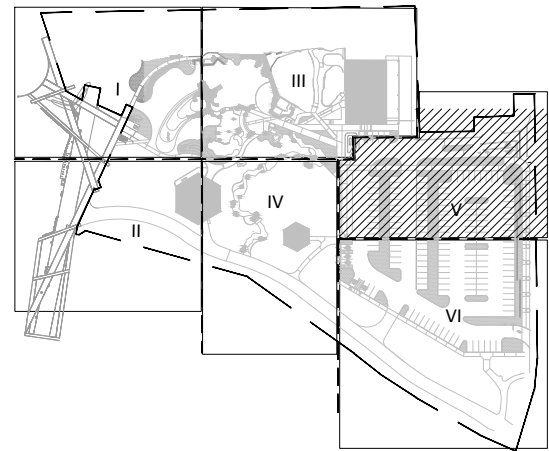
1 IRRIGATION PLAN - AREA V

SCALE: 1" = 20'-0"

IRRIGATION NOTES

- ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN. THE FOREMAN SHALL REMAIN ON-SITE DURING ALL LANDSCAPE SOIL PREPARATION, IRRIGATION AND PLANTING INSTALLATIONS.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
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- COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL AND ELECTRICAL ENGINEERING SHEETS.
- IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT.
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- LOCATIONS OF EQUIPMENT SHALL BE APPROVED IN THE FIELD WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- CONTRACTOR SHALL SUPPLY 'AS-BUILT' DRAWINGS TO THE OWNER PRIOR TO FINAL ACCEPTANCE. AS BUILT DRAWINGS SHALL BE IN BOTH PAPER FORM AND AUTOCAD DRAWING FORMAT SUBMITTED ON A CD.
- CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, EQUIPMENT AND HARDWARE NECESSARY FOR PRODUCTION, EXECUTION AND COMPLETION OF ALL IRRIGATION WORK.
- CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
- THE PROPOSED IRRIGATION SYSTEM IS DESIGNED BASED ON THE ASSUMPTION OF +/- 200 GPM FROM EXISTING SYSTEM AND TO OPERATE AT STATED PSI FOR EACH IRRIGATION HEAD IN IRRIGATION LEGEND ABOVE.
- CONTRACTOR SHALL VERIFY WORKING PSI FROM EXISTING SYSTEM (+/- PSI 72) AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION OF SYSTEM AND NOTIFY OWNERS REPRESENTATIVE OF ANY FINDINGS.
- IRRIGATION HEAD LAYOUT SHALL BE PLACED AS DESIGNED. ALL CHANGES TO HEAD LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IRRIGATION PIPING IS DIAGRAMMATIC ONLY. MAINLINES, LATERALS, SLEEVES AND WIRES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL WHENEVER POSSIBLE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PERFORM WATER COVERAGE TEST WITH LANDSCAPE ARCHITECT PRESENT PRIOR TO SEEDING/SODDING TURF. IF NECESSARY ADJUST IRRIGATION SO 100% COVERAGE IS MET.
- ALL DISTURBED AREAS SHALL BE SODDED AND RECEIVE TEMPORARY IRRIGATION THROUGHOUT THE WARRANTY PERIOD UNLESS OTHERWISE INDICATED.
- ALL EXISTING GRASS REMOVED FOR TRENCHING SHALL BE SAVED FOR REPLACEMENT. IF, AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE, THE SAVED GRASS DOES NOT SEEM ALIVE THEN NEW SOD SHALL BE INSTALLED IN ITS PLACE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING LAWNS AND LANDSCAPE ALIVE AND THRIVING DURING ALL PHASES OF CONSTRUCTION. ANY LANDSCAPE AND TURF GRASS AREAS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL PATCH AND REPAIR EXISTING IRRIGATION SYSTEM AS REQUIRED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- USE KING BROTHERS (KBI) VALVE OR IN HEAD DRAIN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE EVER IT OCCURS.
- IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE INSULATED DIRECT BURIAL SINGLE CONDUCTOR PE IRRIGATION WIRE. 2 SPARE WIRES SHALL BE INSTALLED THROUGHOUT THE ENTIRE IRRIGATION SYSTEM AND BE OF A UNIQUE COLOR (ORANGE).
- ALL 24 VOLT WIRING UNDER PATHWAYS, PAVING AND ROADWAYS SHALL BE IN A SEPARATE 2" SLEEVE, UNLESS OTHERWISE NOTED ON PLAN, AT DEPTH & TYPE PER SPECIFICATIONS.
- ALL WIRE SPLICES TO BE DONE WITH SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER OR APPROVED EQUAL.
- CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN SCH. 40 PVC CONDUIT. SIZE TO FIT.
- TERMINATION OF UNUSED CONTROL WIRE SHALL BE COVERED WITH A WIRE NUT AND PLACED WITHIN SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER, AND PLACED IN A CONTROL VALVE BOX.
- ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL RANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.
- ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
- PLACE 'NON-POTABLE' PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.
- ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
- THE MAINLINE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE THE SAME SIZE PIPE AS EXITING THE CONTROL VALVE.
- CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE.
- ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VB ARE FLUSH WITH THE SLOPE.
- CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDSCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDSCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDSCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.
- INSTALL THE PRESSURE REGULATOR WHERE INDICATED WITH AN (*) NEXT TO THE CONTROL VALVE SYMBOL AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.
- IRRIGATION SHALL BE ADJUSTED SO THAT NO OVERSPRAY HITS THE BUILDING, AND MINIMUM TO NO OVERSPRAY HITS SIDEWALKS, AND PAVEMENT.
- CONTRACTOR SHALL LOCATE AND TAP INTO EXISTING WATER SERVICE. VERIFY ALL MUNICIPAL REQUIREMENTS ARE MET.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
- EXISTING BASELINE CONTROLLER TO HAVE NEW ZONES PROGRAMMED BY CONTRACTOR.
- NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN CONDUIT.
- CONTRACTOR SHALL WINTERIZE THE SYSTEM WITH THE PARK MAINTENANCE STAFF PRESENT. COORDINATE WITH OWNER.
- THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.
- MOISTURE SENSORS SHALL BE INSTALLED PER MANUFACTURE'S DIRECTION. IRRIGATION ZONE WITH THE SENSOR IN IT SHALL BE A PRIMARY ZONE WHEN SCHEDULING THE IRRIGATION CONTROLLER. CONSULT MANUFACTURE'S DIRECTIONS FOR SCHEDULING CONTROLLER WITH THE USE OF PRIMARY ZONES. EXTEND IRRIGATION CONTROL WIRE TO MOISTURE SENSOR.
- LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 910 10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 910 10" ROUND VALVE BOX.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION ALONG HOWARD STREET PROMENADE DURING CONSTRUCTION.

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L5.4

FILE NAME:

DATE: Jul 02, 2019 - 3:48pm by: jculp

BY	REVISIONS	DATE	B W A BERNARDO WILLS ARCHITECTS PC	LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	ELEVATION SEE SHEET V1.0	HORIZONTAL 1"= 20'-0"	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	CITY OF SPOKANE	CITY OF SPOKANE, WASHINGTON DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200	PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET	SHEET TITLE: IRRIGATION PLAN - AREA V 7.03.2019
					CBM NO. N/A	VERTICAL		07.03.19 DRAWN JC/PO				
					NAVIO 88			07.03.19 DESIGNED BL				
								CHECKED				
								APPROVED				

MATCHLINE - SEE SHEET L5.3

CONTRACTOR TO COORDINATE WITH CITY URBAN FORESTER TO MINIMIZE TRENCING IMPACT ON EXISTING TREE ROOTS BEFORE AND DURING IRRIGATION INSTALLATION.

CONTRACTOR TO COORDINATE WITH CITY URBAN FORESTER TO MINIMIZE TRENCING IMPACT ON EXISTING TREE ROOTS BEFORE AND DURING IRRIGATION INSTALLATION THROUGH OUT THIS AREA.

CONTRACTOR TO COORDINATE WITH CITY URBAN FORESTER TO MINIMIZE TRENCING IMPACT ON EXISTING TREE ROOTS BEFORE AND DURING IRRIGATION INSTALLATION THROUGH OUT THIS AREA.

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CONTRACTOR TO COORDINATE WITH CITY URBAN FORESTER TO MINIMIZE TRENCING IMPACT ON EXISTING TREE ROOTS BEFORE AND DURING IRRIGATION INSTALLATION THROUGH OUT THIS AREA.

CONTRACTOR TO MINIMIZE TRENCING IMPACT ON EXISTING SHRUB AND GROUND COVER ROOTS DURING IRRIGATION INSTALLATION IN THIS AREA.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811 OR
(800)342-1585
CALL TWO BUSINESS DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811 OR
(800)342-1585
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SCALE: 1" = 20'-0"








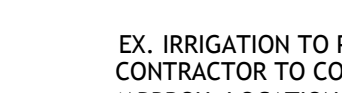



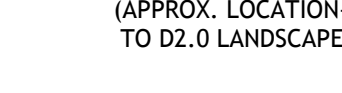
CONTRACTOR TO
COORDINATE WITH CITY
URBAN FORESTER TO
MINIMIZE TRENCHING
IMPACT ON EXISTING TREE
ROOTS BEFORE AND DURING
IRRIGATION INSTALLATION
THROUGH OUT THIS AREA.

CONTRACTOR TO
COORDINATE WITH
CITY URBAN
FORESTER TO
MINIMIZE
TRENCHING IMPACT
ON EXISTING TREE
ROOTS BEFORE AND
DURING IRRIGATION
INSTALLATION
THROUGH OUT THIS
AREA.

CONTRACTOR TO COORDINATE
WITH CITY URBAN FORESTER
TO MINIMIZE TRENCHING
IMPACT ON EXISTING TREE
ROOTS BEFORE AND DURING
IRRIGATION INSTALLATION
THROUGH OUT THIS AREA.

CONTRACTOR TO MINIMIZE
TRENCHING IMPACT ON
EXISTING SHRUB AND
GROUND COVER ROOTS
DURING IRRIGATION
INSTALLATION IN THIS AREA.

SYMBOL		MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS		MANUFACTURER/MODEL/DESCRIPTION
(18) 1-5V ② 08H-VAN ⑫ 12HE-VAN ⑩ 10HE-VAN ⑮ 15HE-VAN		RAIN BIRD 1806-SAM-PRS ADJ	30				RAIN BIRD PGA-PRS-D ANGLE 1", 1-1/2", 2" (AS SHOWN) ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR MODULE AND BASELINE DIRECT BURIAL BICODERS, MODEL # BL-5201, BL-5202, BL-5204
		RAIN BIRD 1806-SAM-PRS HE-VAN SERIES 30 TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.					
<u>SYMBOL</u>		<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>		
[04]		HUNTER I-25-06-SS	50	4.30	41"		RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #4 YELLOW.					SHUT OFF VALVE RESILIENT WEDGE GATE VALVE MUELLER Z360 SERIES - 4" (UNLESS OTHERWISE NOTED)
[05]		HUNTER I-25-06-SS	50	4.80	44"	D	1" MANUAL DRAIN VALVE
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #05 WHITE.					PRESSURE REDUCING VALVE PRESSURE LIMITED TO 72.84 PSI WILKINS-ZW209-4"
[07]		HUNTER I-25-06-SS	50	7.00	47"	A	
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #08 LIGHT BROWN.					BASELINE BL-LA01 LIGHTNING ARRESTOR
[08]		HUNTER I-25-06-SS	50	8.30	49"	LA	POINT OF CONNECTION 4"
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #15 GREY.				O1	POINT OF CONNECTION 1 1/2" FOR BACKUP IRRIGATION
[15]		HUNTER I-25-06-SS	50	13.4	56"	O2	FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION 1 1/2"
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE - #18 RED.				BF	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1" PIPE UNLESS OTHERWISE NOTED IN IRRIGATION PLAN - CONTRACTOR SHALL NOT USE 3/4" OR 1 1/4" PIPE SIZES
[18]		HUNTER I-25-06-SS	50	14.5	58"		4" (UNLESS OTHERWISE NOTED) IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235
		TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.					PIPE SLEEVE: PVC SCHEDULE 40
ARC [25]		RAIN BIRD 5006-PC-FC-MPR 45	25'				
		TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PERFORATION ROTOR (MPR NOZTIF). ARC AND RADIUS AS PER					
						EXISTING IRRIGATION	

<p> ARC</p> <p>SYMBOL</p>	<p>SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.</p> <p>RAIN BIRD 5006-PC, FC-MPR 45 35'</p> <p>TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT-RED, 30 FT-GREEN, 35FT-BEIGE.</p>	<p></p> <p></p> <p></p>	<p>EX. 4" C900 WITH GATE VALVE (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)</p> <p>EX. IRRIGATION METER (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD)</p> <p>EX. IRRIGATION TO PROTECT AND PRESERVE ON ADJACENT PROPERTY. CONTRACTOR TO COORDINATE W/ OWNER PRIOR TO CONSTRUCTION. (APPROX. LOCATION-CONTRACTOR TO VERIFY IN FIELD - REFER TO D2.0 LANDSCAPE DEMOLITION PLAN AND CIVIL)</p> <p>EX. DRIP VALVE/BOX</p>
<p></p> <p>SYMBOL</p>	<p>MANUFACTURER/MODEL</p> <p>RAIN BIRD XCZ-100-PRB-LC</p> <p>WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.</p>	<p></p> <p></p>	<p>Valve Callout</p> <p>Valve Number</p> <p>Valve Flow (gpm)</p> <p>Valve Size</p> 
<p></p> <p>SYMBOL</p>	<p>MANUFACTURER/MODEL</p> <p>RAIN BIRD XCZ-150-PRB-COM</p> <p>HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES 1-1/2" PESB VALVE WITH TWO 1" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-40GPM.</p>	<p></p> <p></p>	<p>Valve Callout</p> <p>Valve Number</p> <p>Valve Flow (gpm)</p> <p>Valve Size</p> 

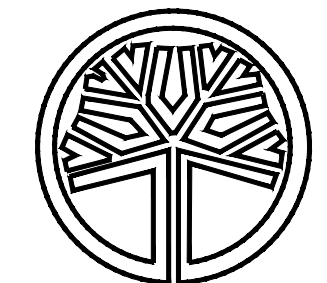
NOTE: CONTRACTOR TO USE
NETAFIM TL050MPF-1 AUTO-
MATIC FLUSH VALVE, 1/2"
MALE PIPE THREAD FOR DRIP
IRRIGATION (A MIN. OF 1 PER
ZONE, ADDITIONAL AS
REQUIRED = 80 MIN.)

NOTE:
FOR IRRIGATION GENERAL NOTES REFER TO PRIOR SHEET L5.4.

— NOTE: IRRIGATION LINES AND VALVES SHOWN ARE DIAGRAMMATIC. CONTRACTOR TO AVOID DAMAGING EXISTING TREE ROOTS WHEN TRENCHING AND PLACING IRRIGATION EQUIPMENT.

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

DATE: Jul 02, 2019 - 3:48pm by: jculp



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DELL R. HATCH
CERTIFICATE NO. 1162

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: **PARK**

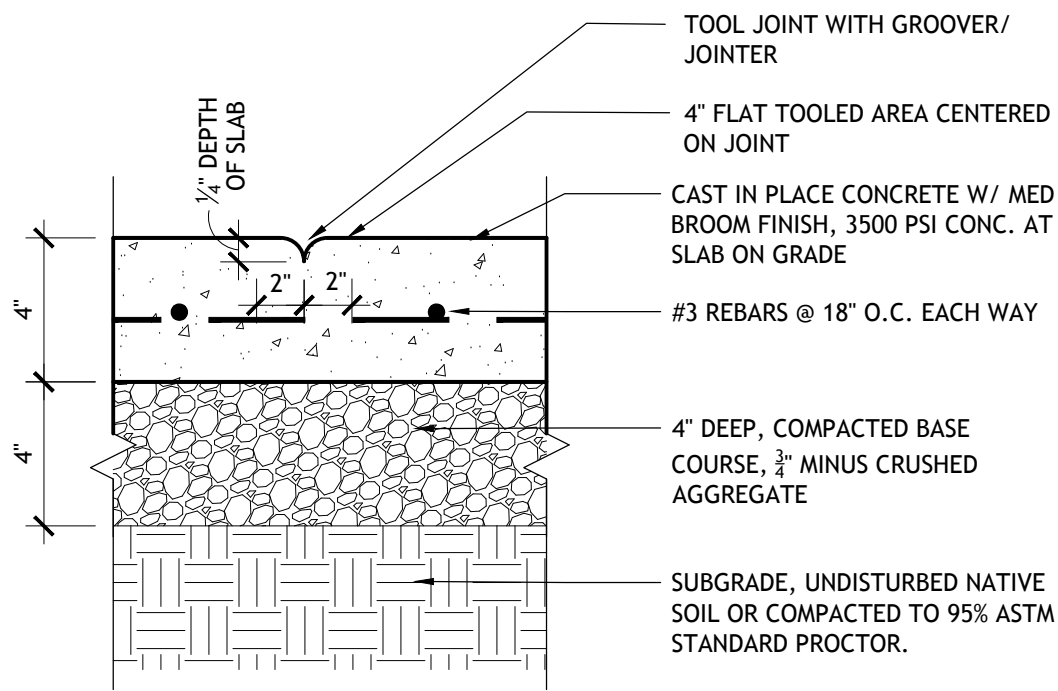
CITY PURCHASING NUMBER	DRAWING NUMBER
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CITY PURCHASING NUMBER	DRAWING NUMBER

L5.5

P# 1 OF	REVISION NO.:
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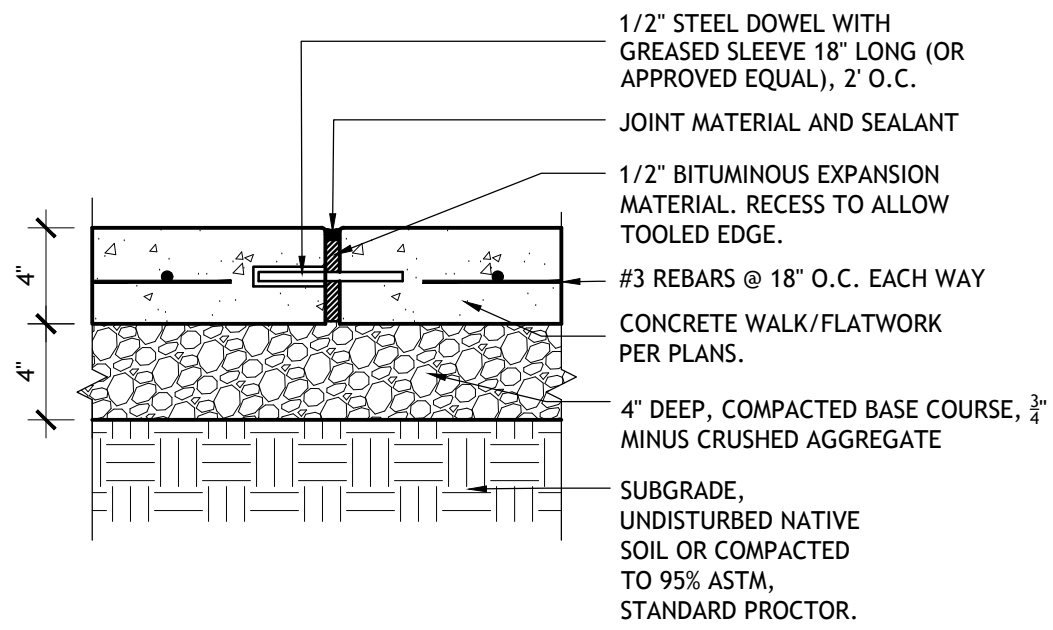
FILE NAME:



NOTES:
1. SCORE JOINT/CONTROL JOINT MAX 8'-0" O.C. OR AS SHOWN ON PLANS

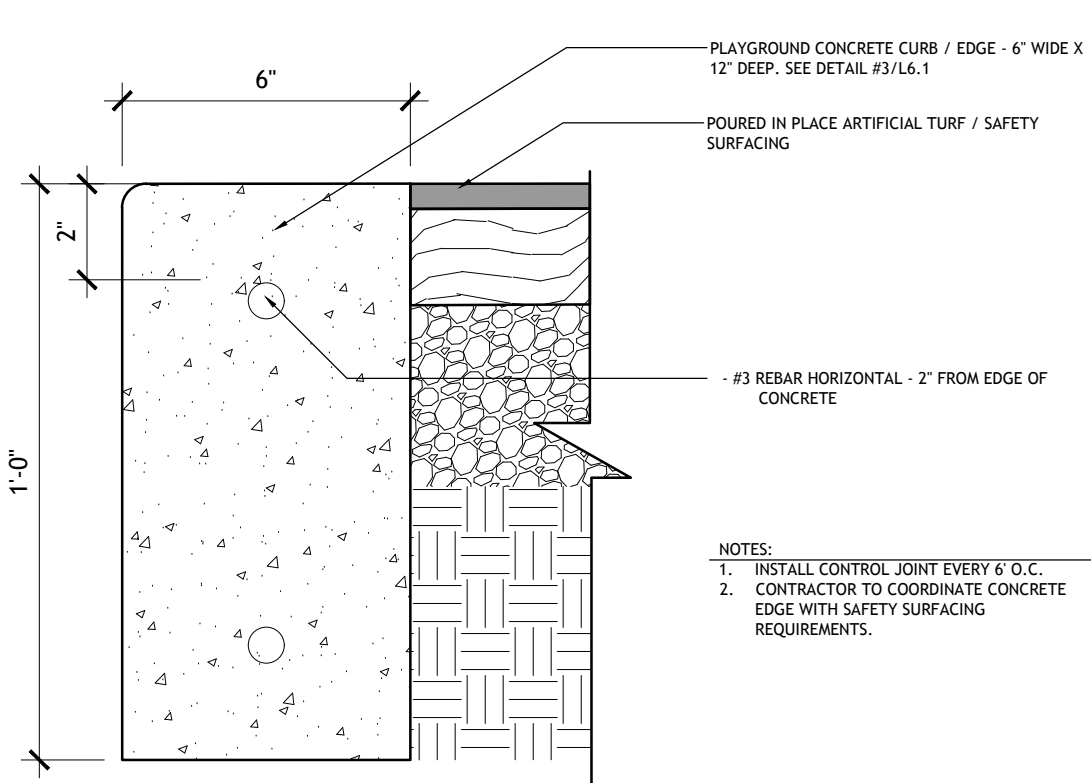
1 CONCRETE FLATWORK/SCORE JOINT

SCALE: 1 1/2" = 1'-0"



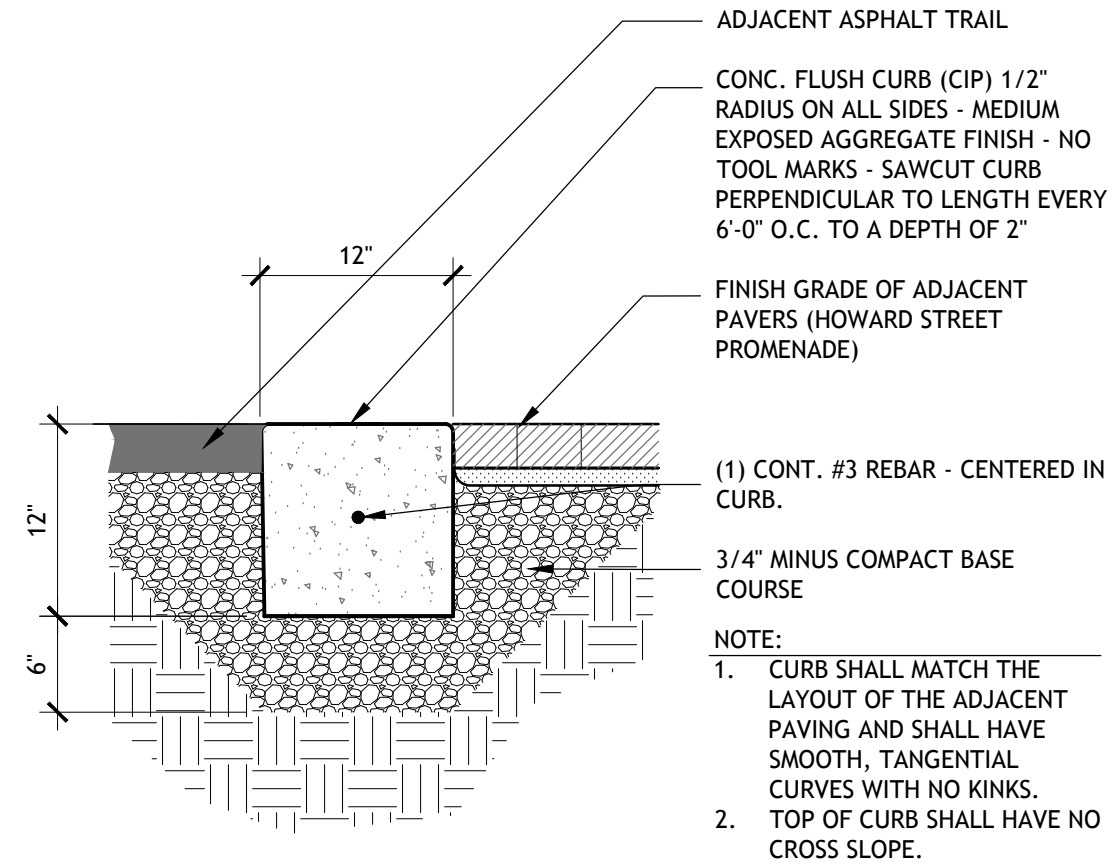
2 ISOLATION JOINT DETAIL

SCALE: 1" = 1'-0"



3 THICKENED CURB AT PLAY SURF.

SCALE: 3" = 1'-0"

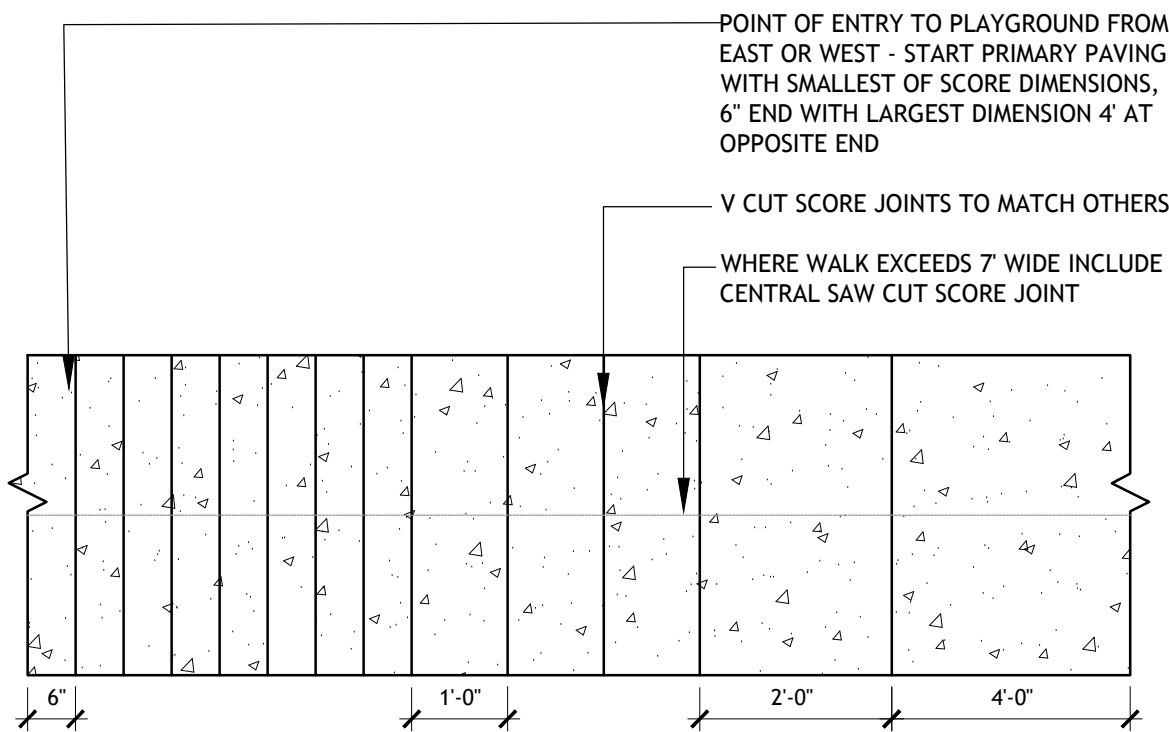


4 CONCRETE CURB AT ASPHALT/TRANSITION

SCALE: NTS

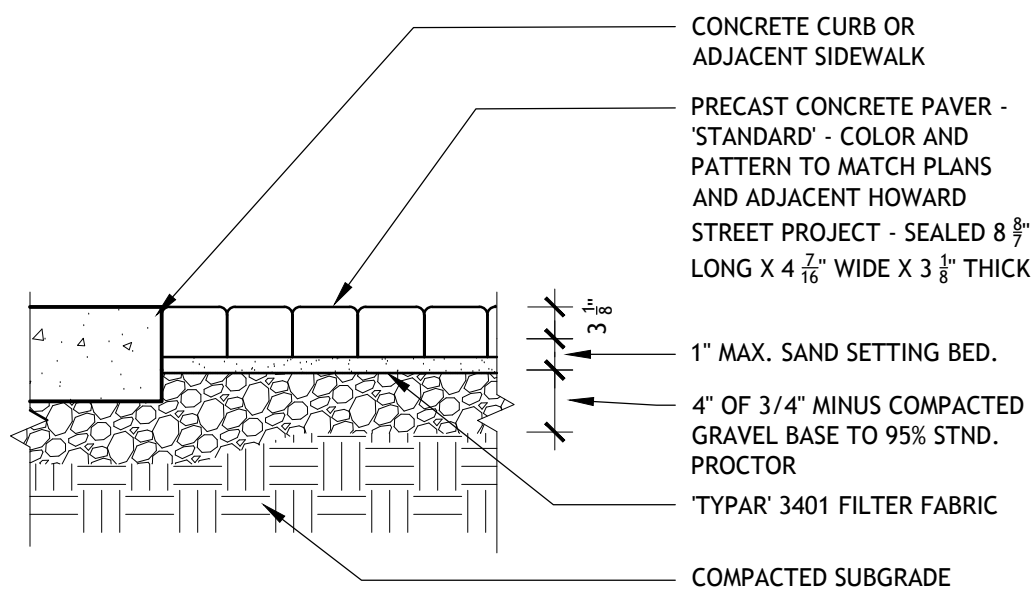
NOTES:

- CONCRETE TO BE MEDIUM BROOM FINISH, NATURAL GRAY.
- PATTERNED SAW CUT WALK AT THE FOLLOWING DIMENSIONS: 6", 1'-0", 2'-0" AND 4'-0".
- INSTALL MINIMUM OF 6' OF SMALLEST DIMENSION SAW CUT, 6" PRIOR TO TRANSITIONING TO NEXT DIMENSION.
- V CUT SCORE JOINT TO MATCH OTHER AREAS OF RIVERFRONT PARK.



5 PRIMARY PAVING

SCALE: NTS

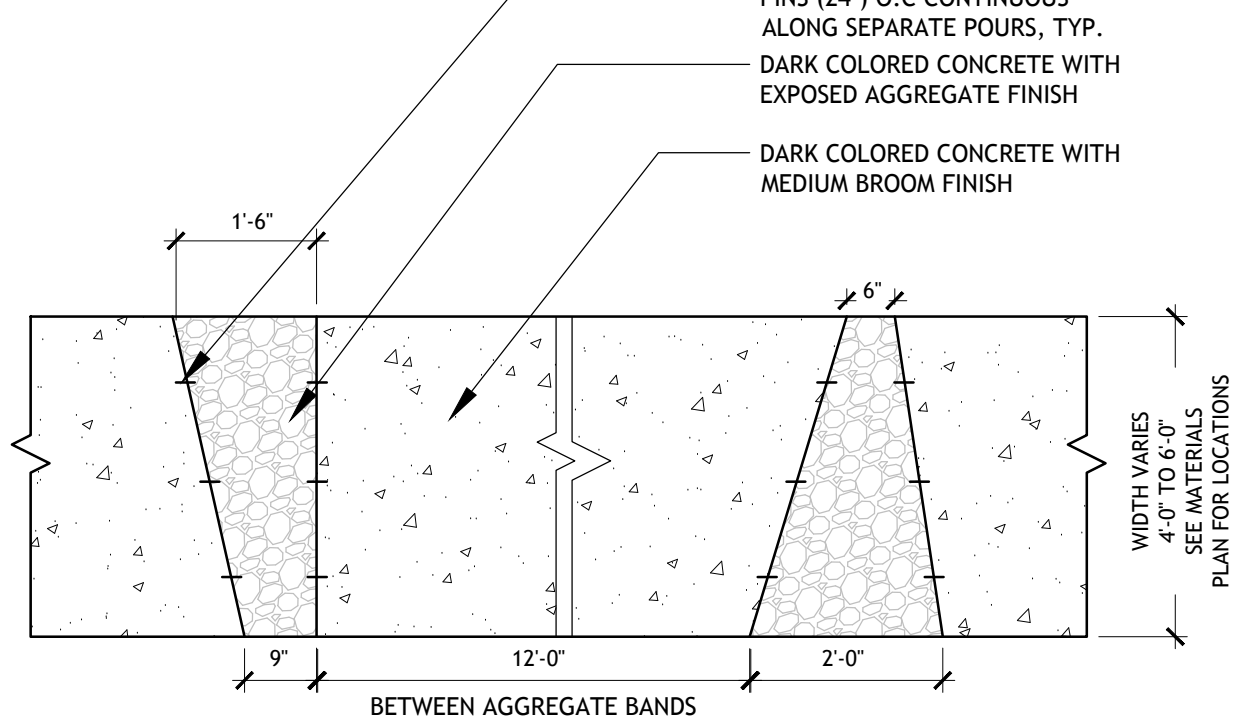


6 SECONDARY PAVING

SCALE: NTS

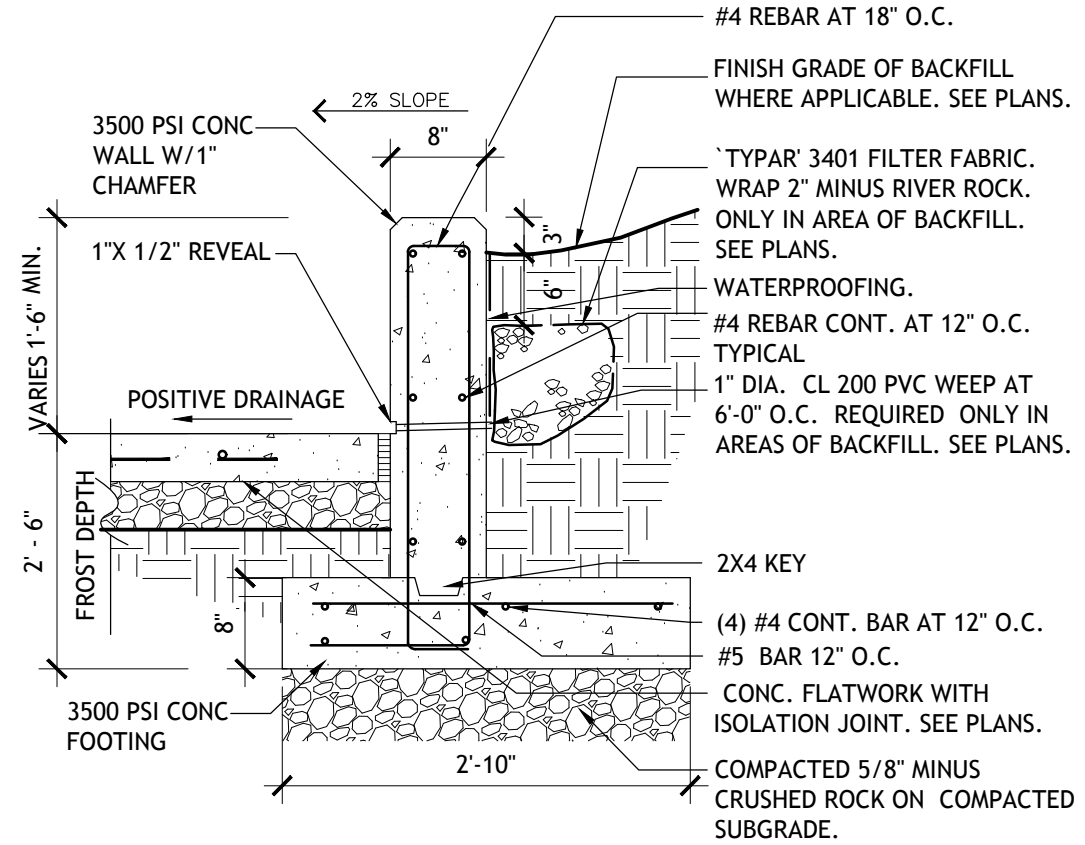
NOTES:

- SUBMIT CONCRETE COLOR FOR APPROVAL.
- PREPARE 12"X12" SAMPLE FOR APPROVAL.
- TERTIARY PAVING TO MATCH ADJACENT HOWARD STREET PROJECT.



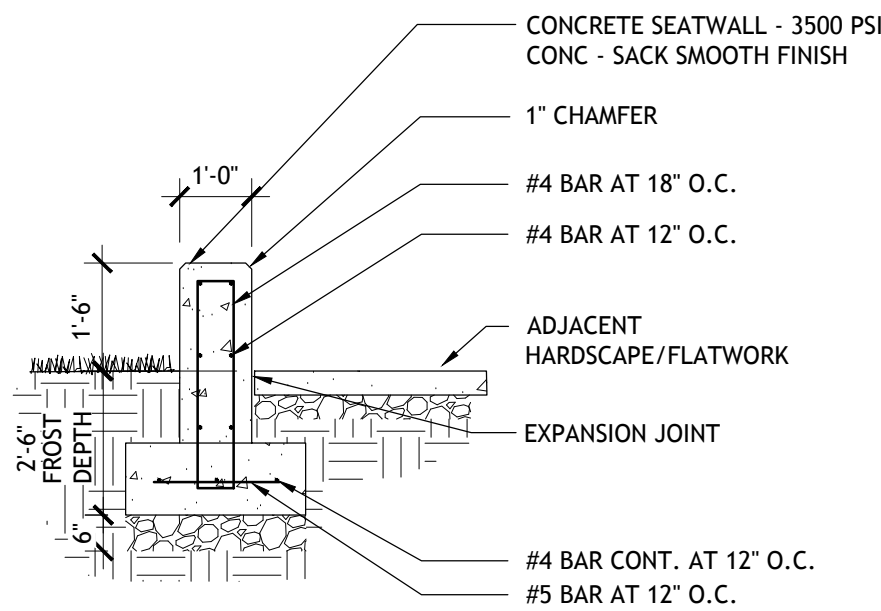
7 TERTIARY PAVING

SCALE: NTS



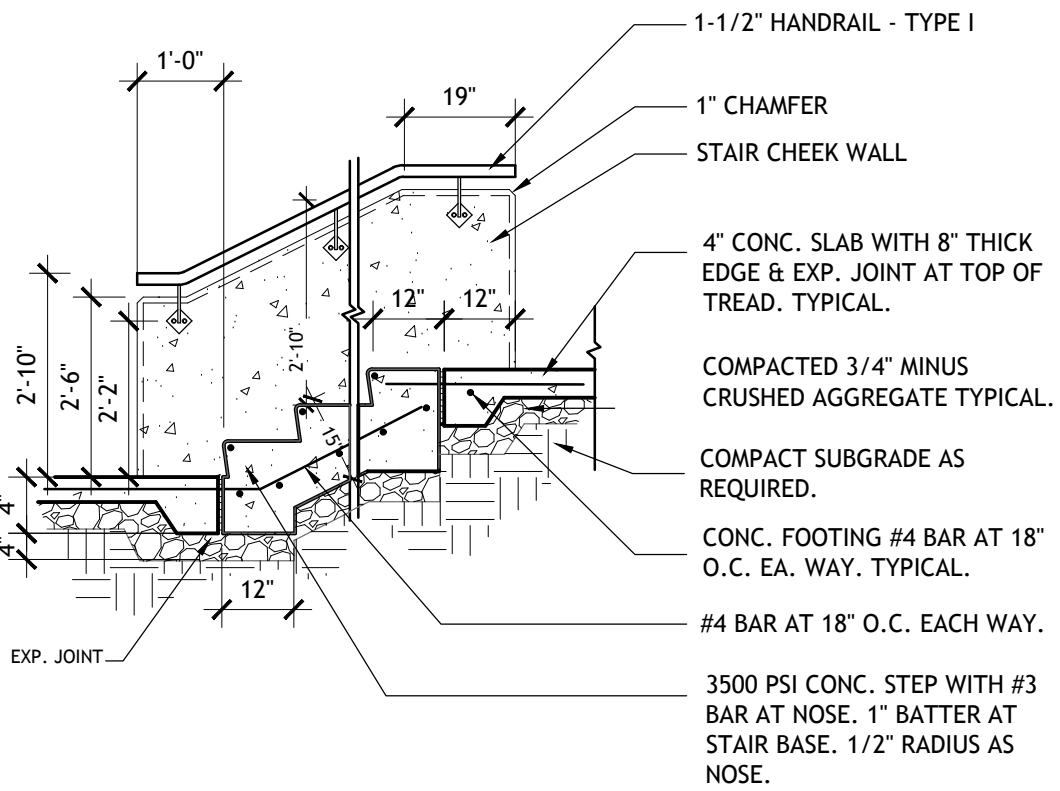
8 RETAINING WALL DETAIL

SCALE: 3/4" = 1'-0"



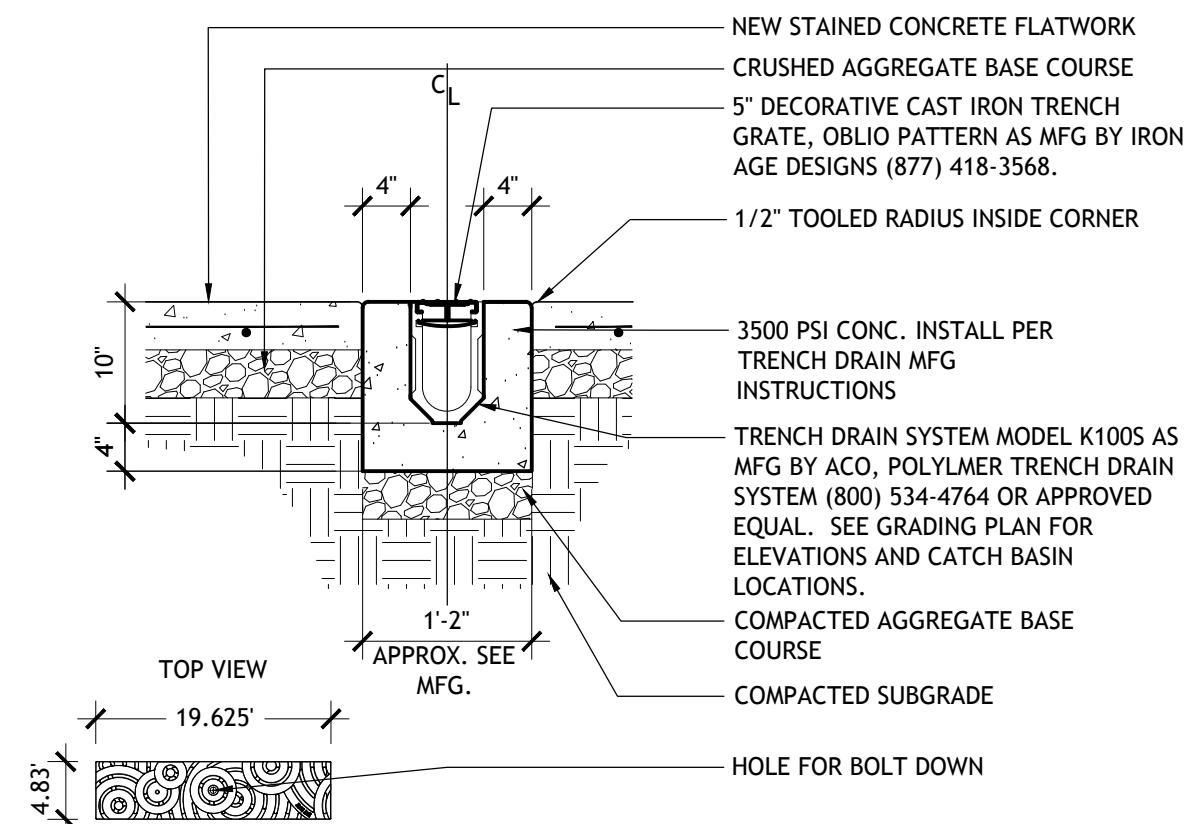
9 SEATWALL

SCALE: 3/8" = 1'-0"



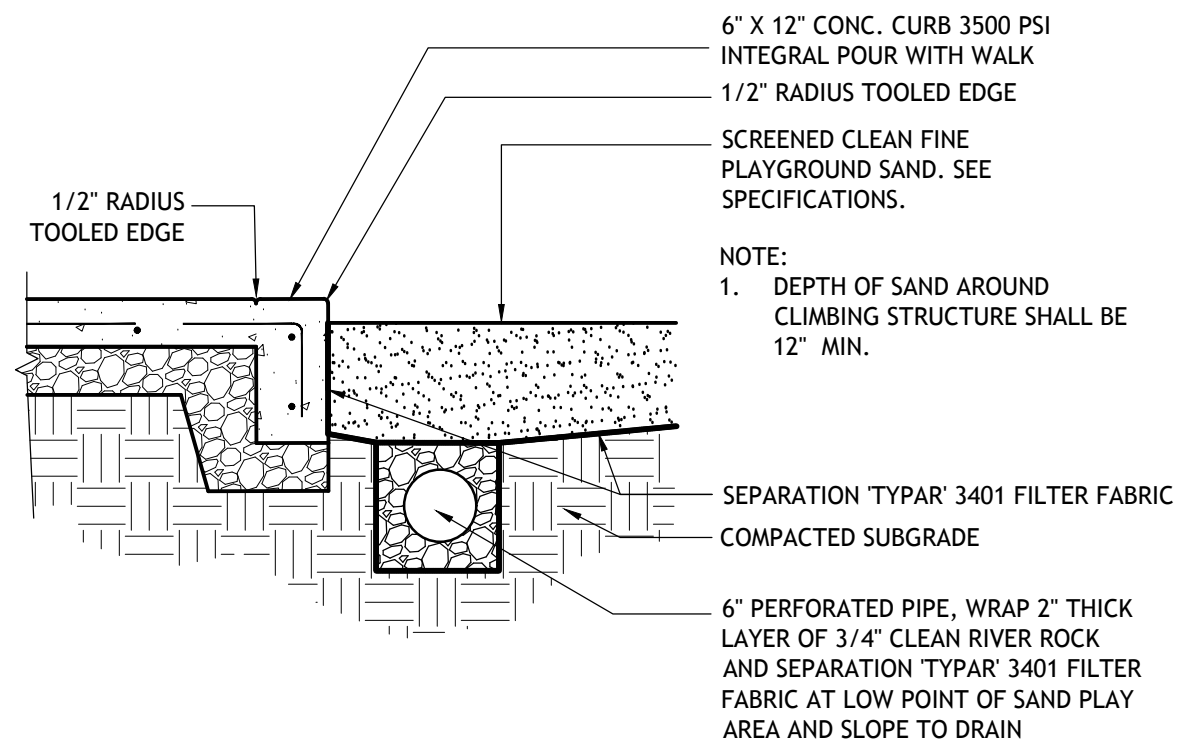
10 STAIR TYPE II

SCALE: 3/8" = 1'-0"



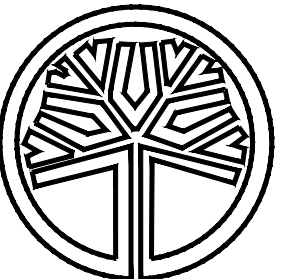
11 TRENCH DRAIN - ALT. #1

SCALE: 3/4" = 1'-0"



12 SAND PLAY AREA/DRAIN

SCALE: 3/4" = 1'-0"



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DELL R. HATCH
CERTIFICATE NO. 1182

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

L6.0

FILE NAME:

DATE: Jul 03, 2019 - 9:16am by: jculp

BY	REVISIONS	DATE

B W A BERNARDO | WILLS
ARCHITECTS PC

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	XXX
CBM NO.	N/A	VERTICAL	
CITY DATUM		SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS	
CCS - ADOPTED 2/95	
07.03.19	DRAWN JG/PO
07.03.19	DESIGNED BL
	CHECKED
	APPROVED

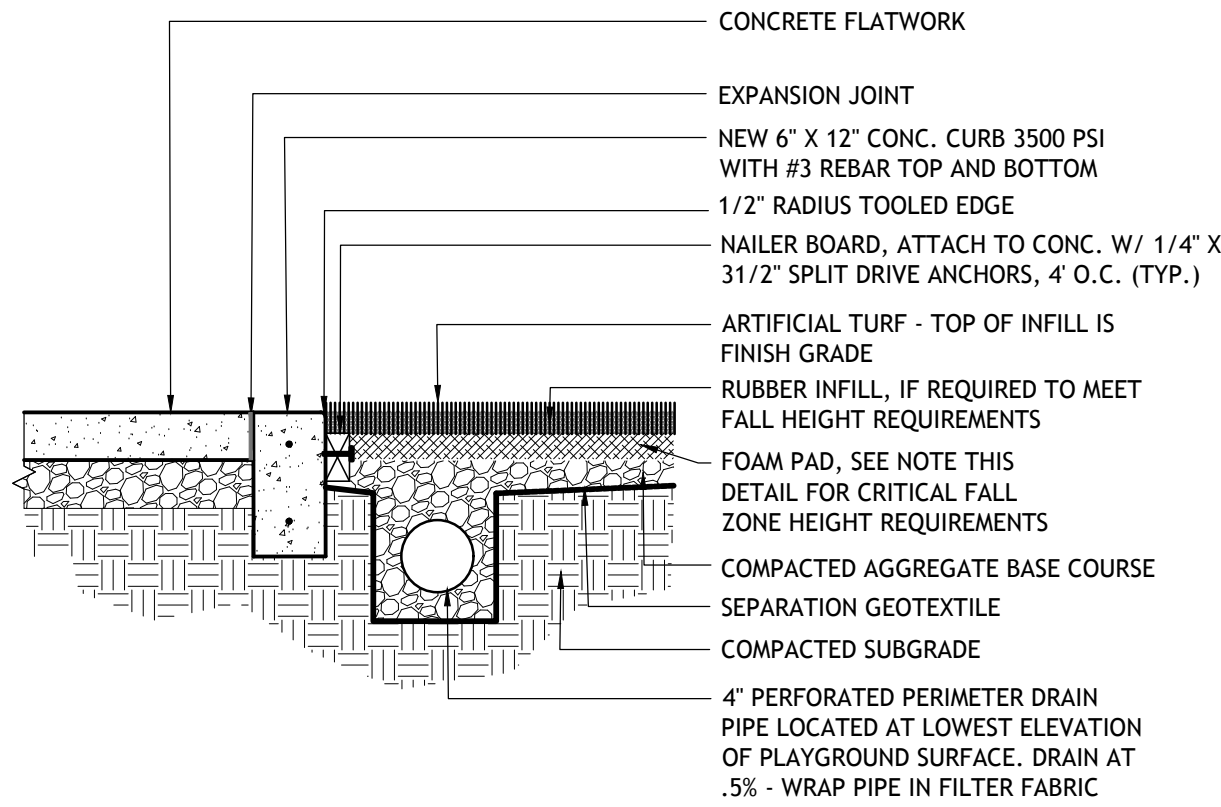


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

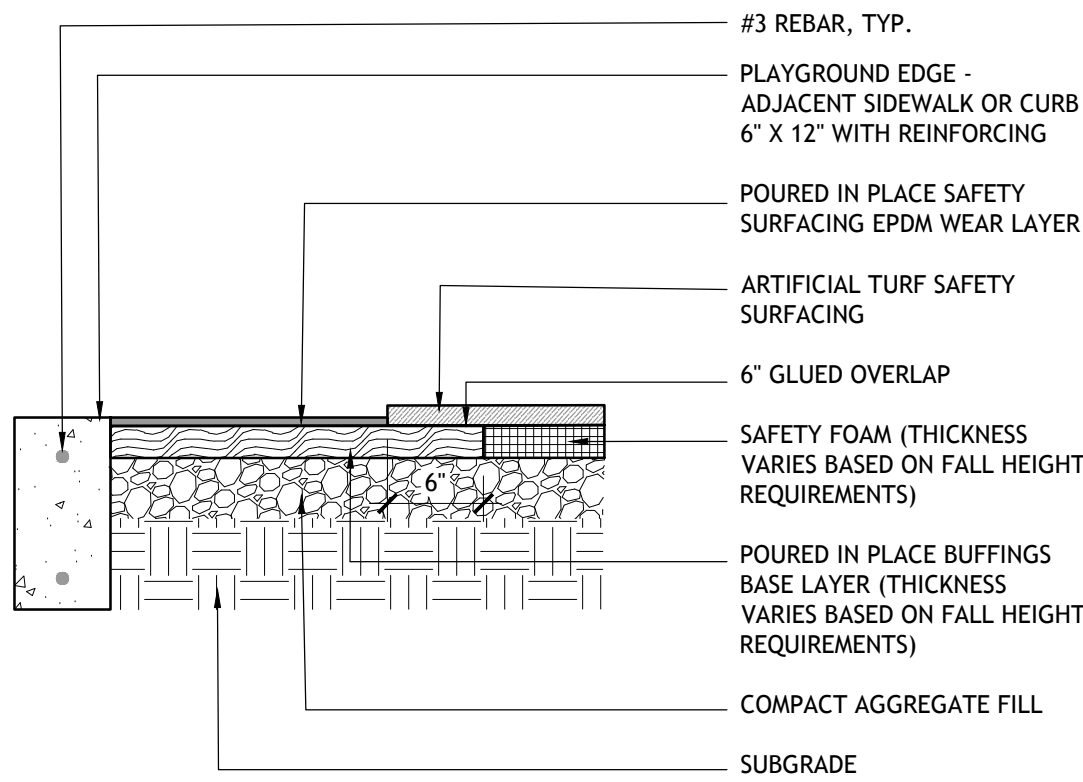
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: HARDSCAPE DETAILS
7.03.2019

- NOTE (CONTRACTOR TO CONFIRM W/MANUFACTURER):
- 13' FALL ZONE: NO PAD REQUIRED. GRASS TO HAVE 4" AGG BASE COURSE.
 - 6' FALL ZONE: 1-1/8" PAD REQUIRED WITH 3" AGG BASE COURSE.
 - 8' FALL ZONE: 2-1/8" PAD REQUIRED WITH 2" AGG BASE COURSE.
 - 10' FALL ZONE: 1-1/8" + 2-1/8" PAD WITH 1" AGG BASE COURSE.
 - 12' FALL ZONE: (2) 2-1/8" PADS WITH 1" AGG BASE COURSE.



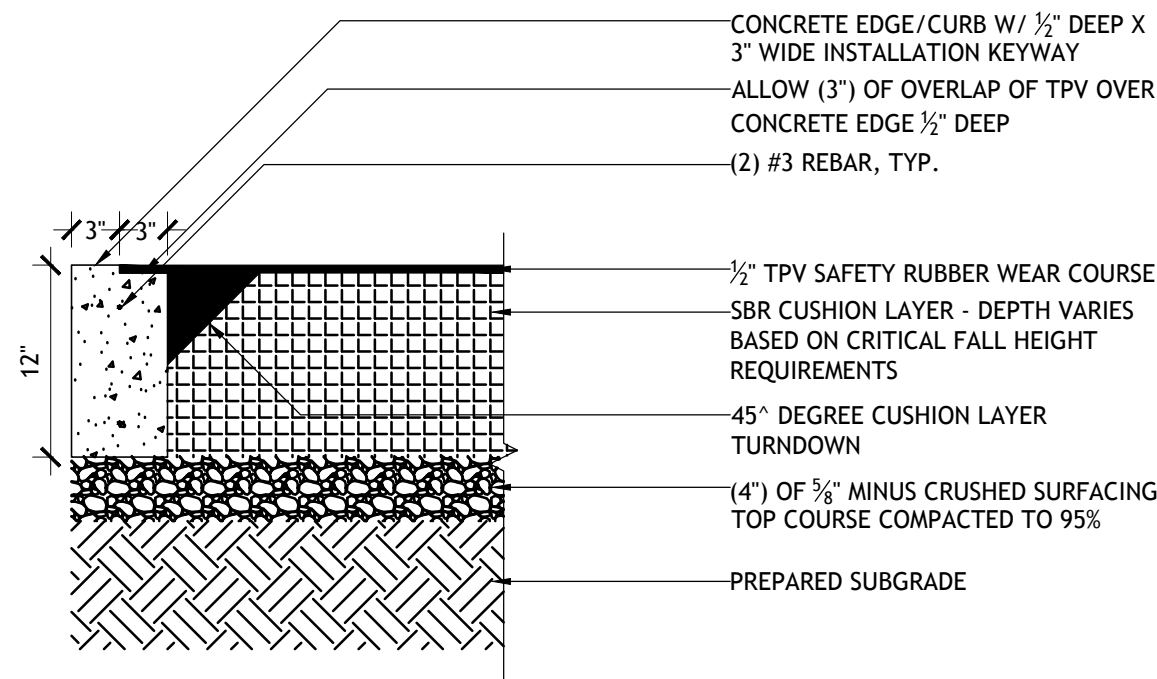
1 ARTIFICIAL TURF AGAINST CONCRETE

SCALE: 3/4" = 1'-0"



2 ARTIFICIAL TURF AT (PIP) SAFETY SURF.

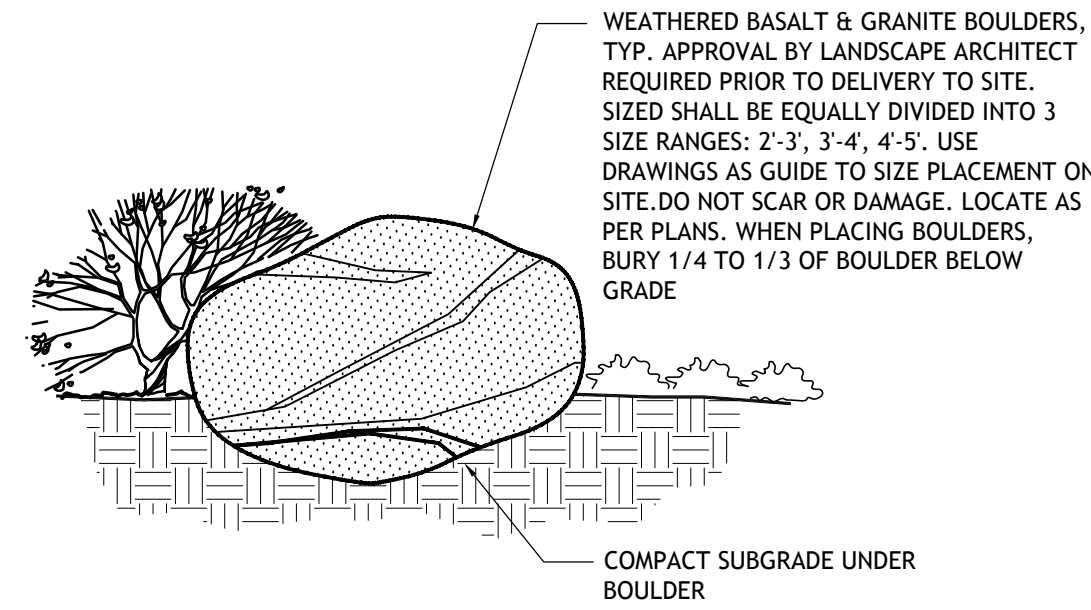
SCALE: 1" = 1'-0"



- NOTES:
- CONTRACTOR TO REFERENCE PLAY EQUIPMENT MANUFACTURER'S CRITICAL FALL HEIGHT INFORMATION AND L3.10 WHEN DETERMINING CUSHION LAYER AND SURFACING REQUIREMENTS.

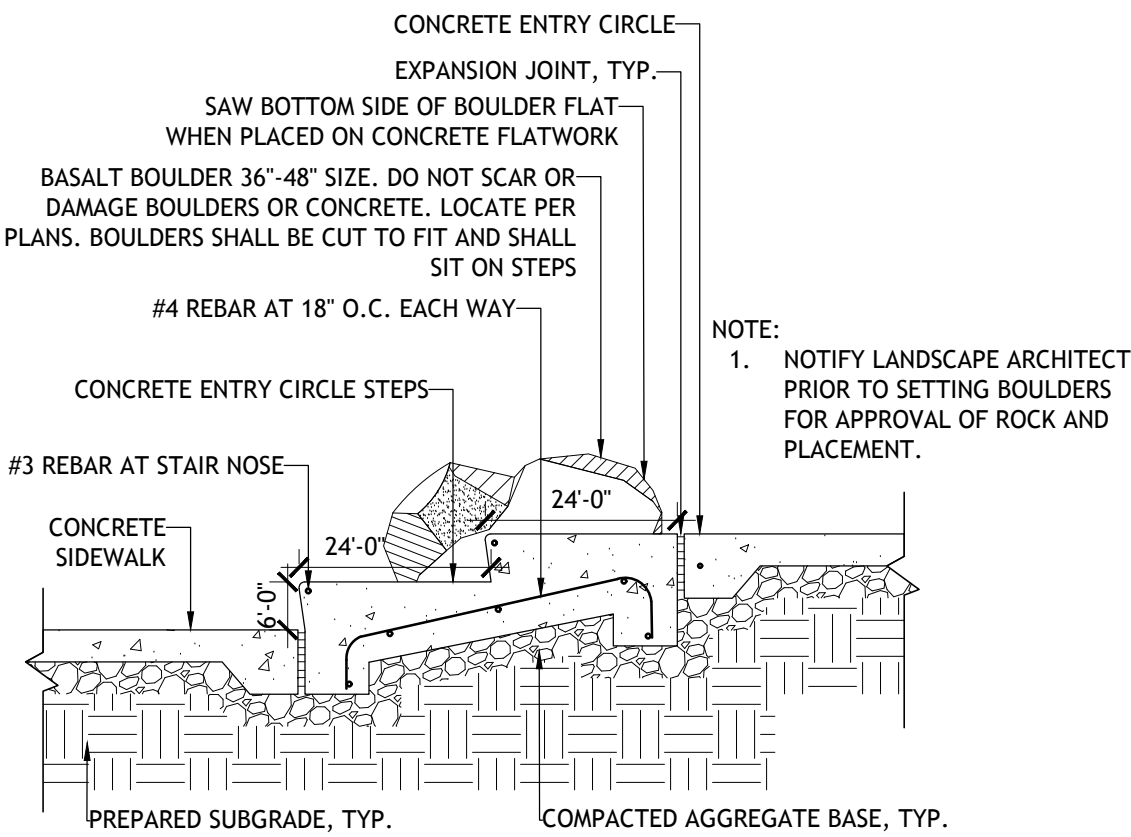
3 POURED IN PLACE (PIP) SAFETY SURFACING

SCALE: NTS



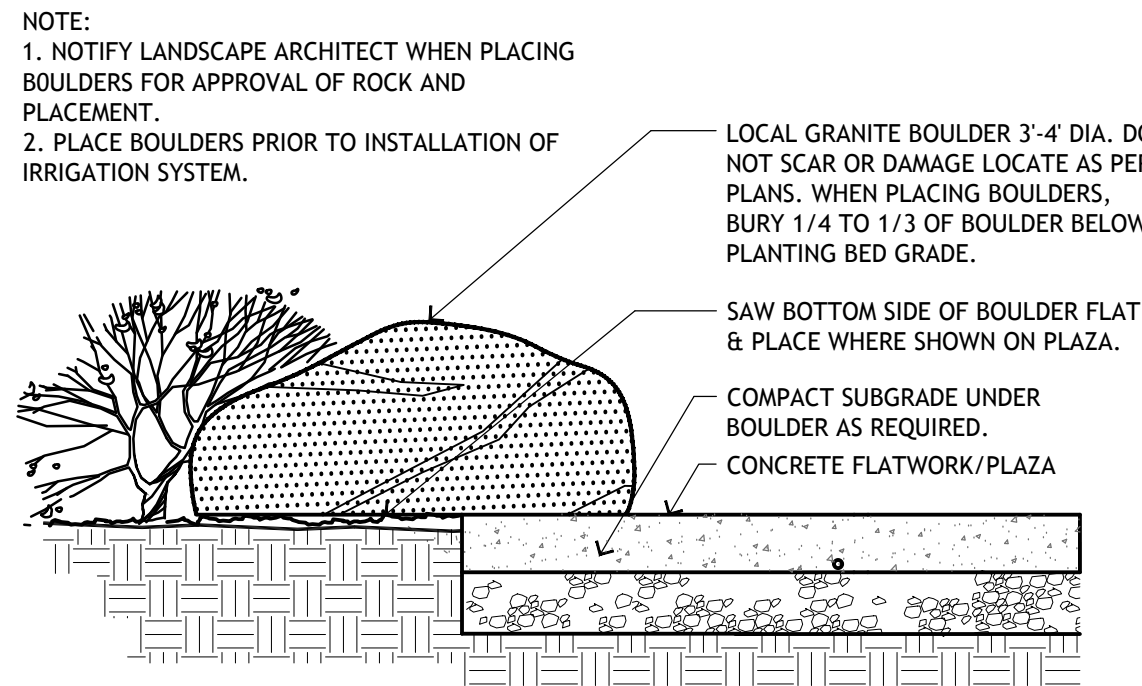
4 BASALT BOULDER IN LANDSCAPE

SCALE: NTS



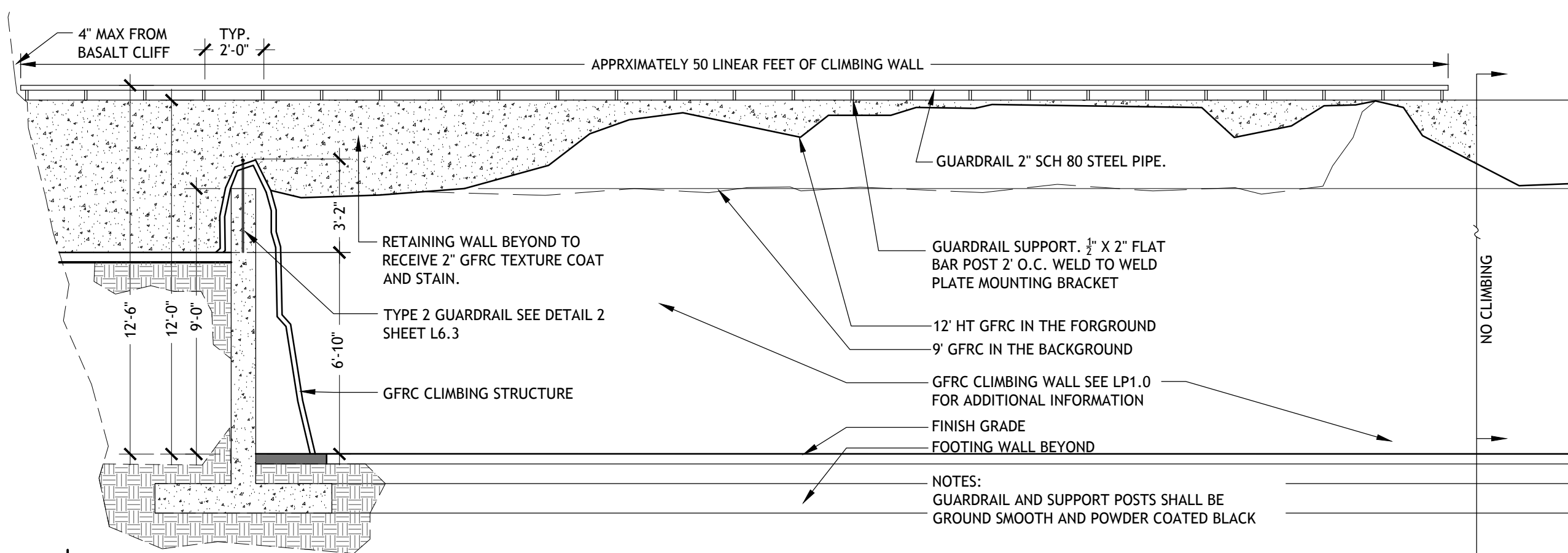
5 STAIRS AT ENTRY CIRCLE

SCALE: 1/2" = 1'-0"



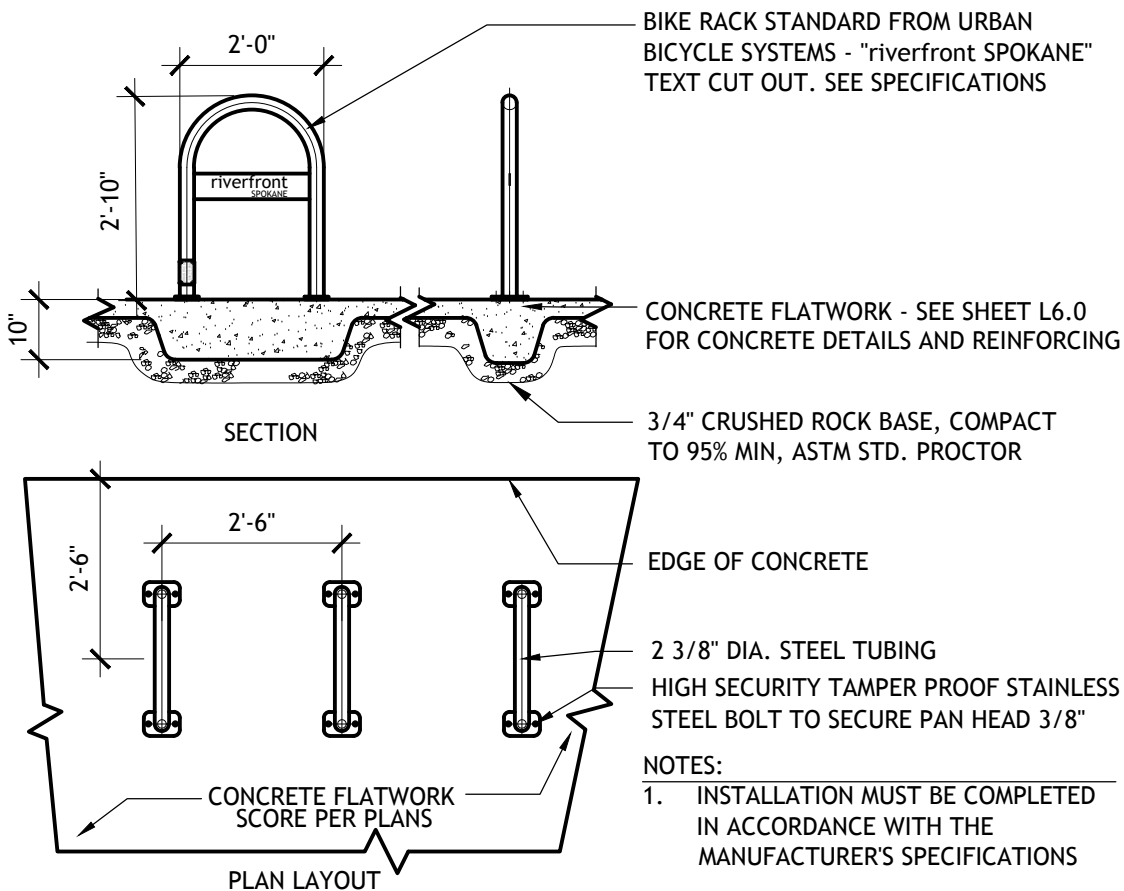
7 BOULDER IN FLATWORK

SCALE: 3/4" = 1'-0"



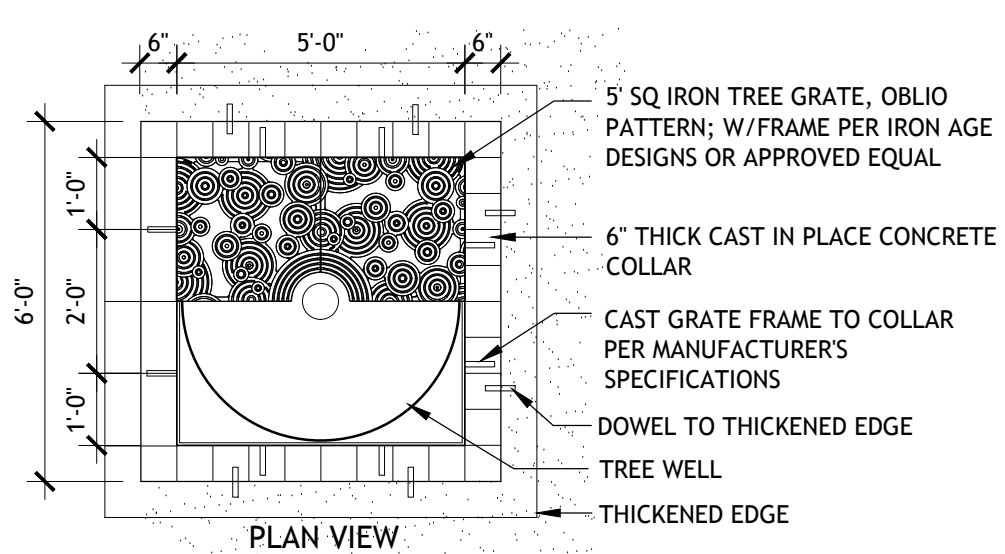
8 GFRc CLIMBING WALL - ELEVATION

SCALE: NTS



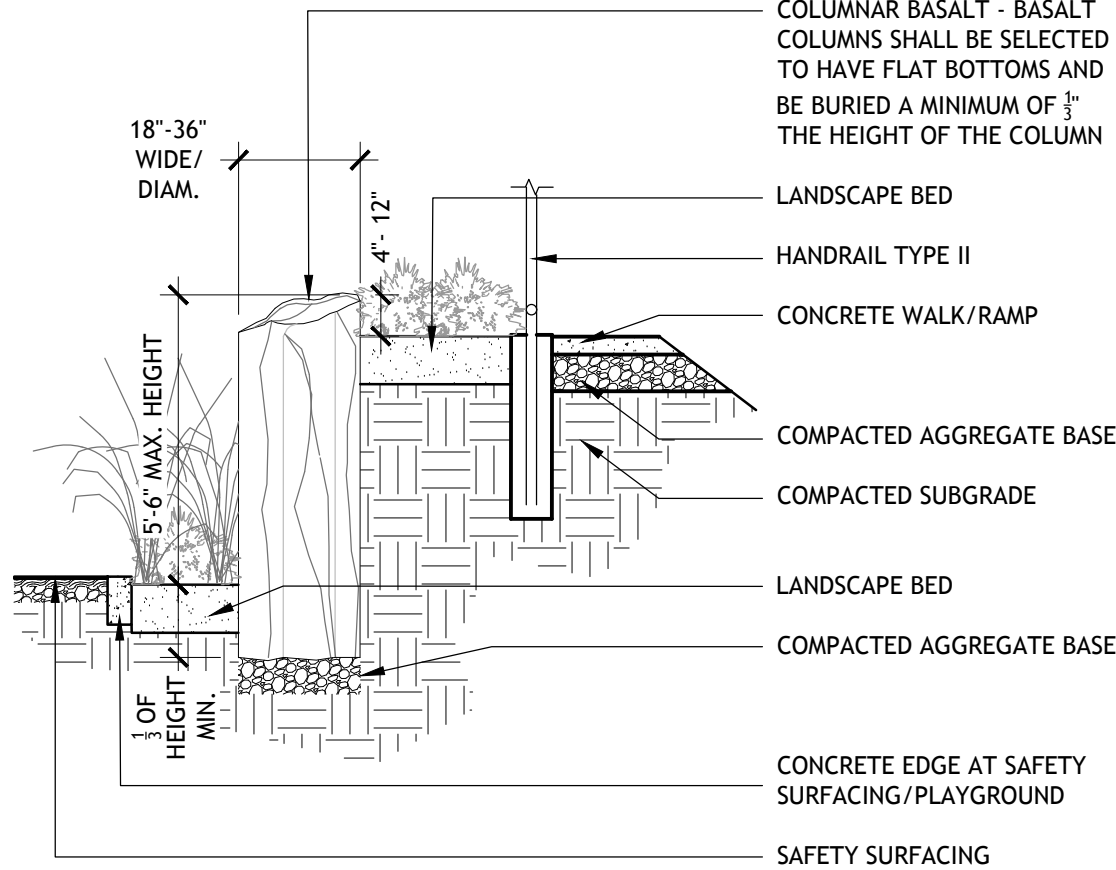
9 BIKE RACK - OFCI

SCALE: NTS



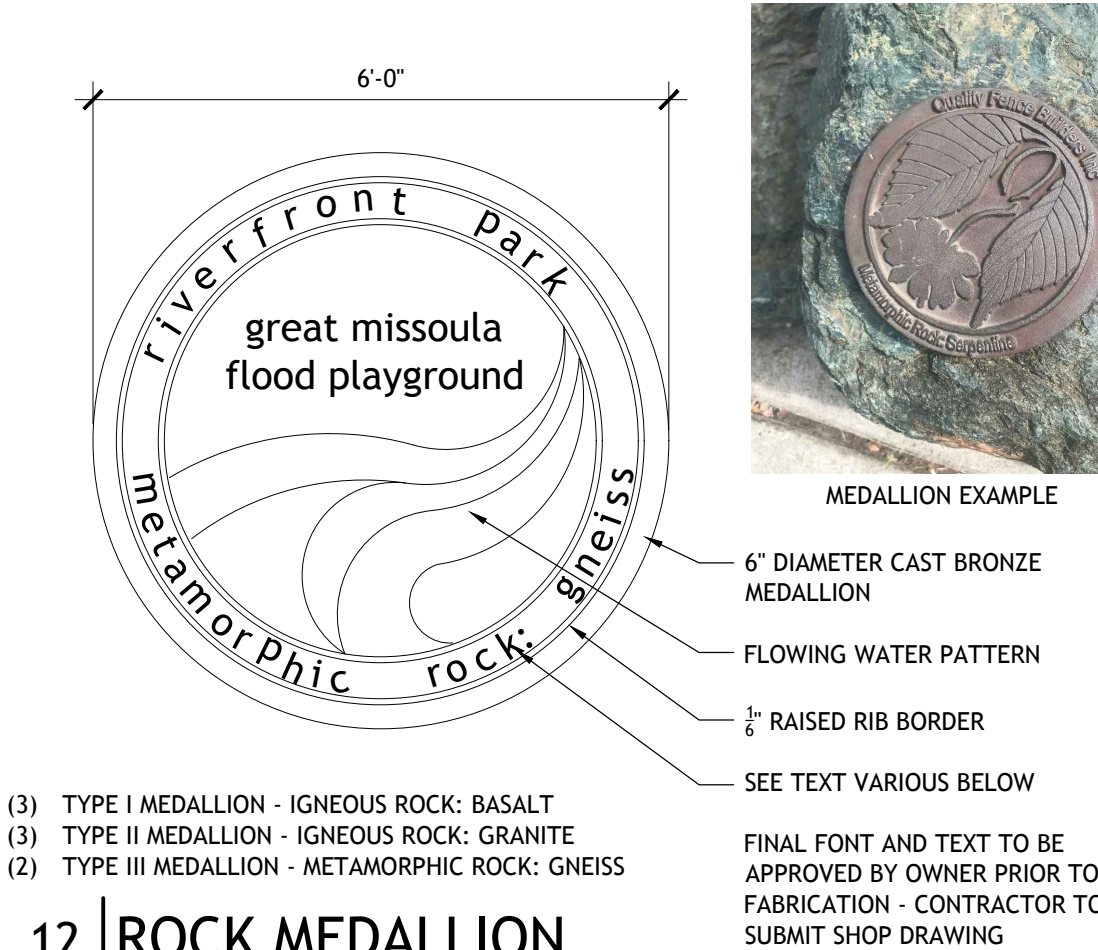
10 TREE GRATE

SCALE: NTS



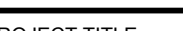
11 COLUMNAR BASALT RET. WALL

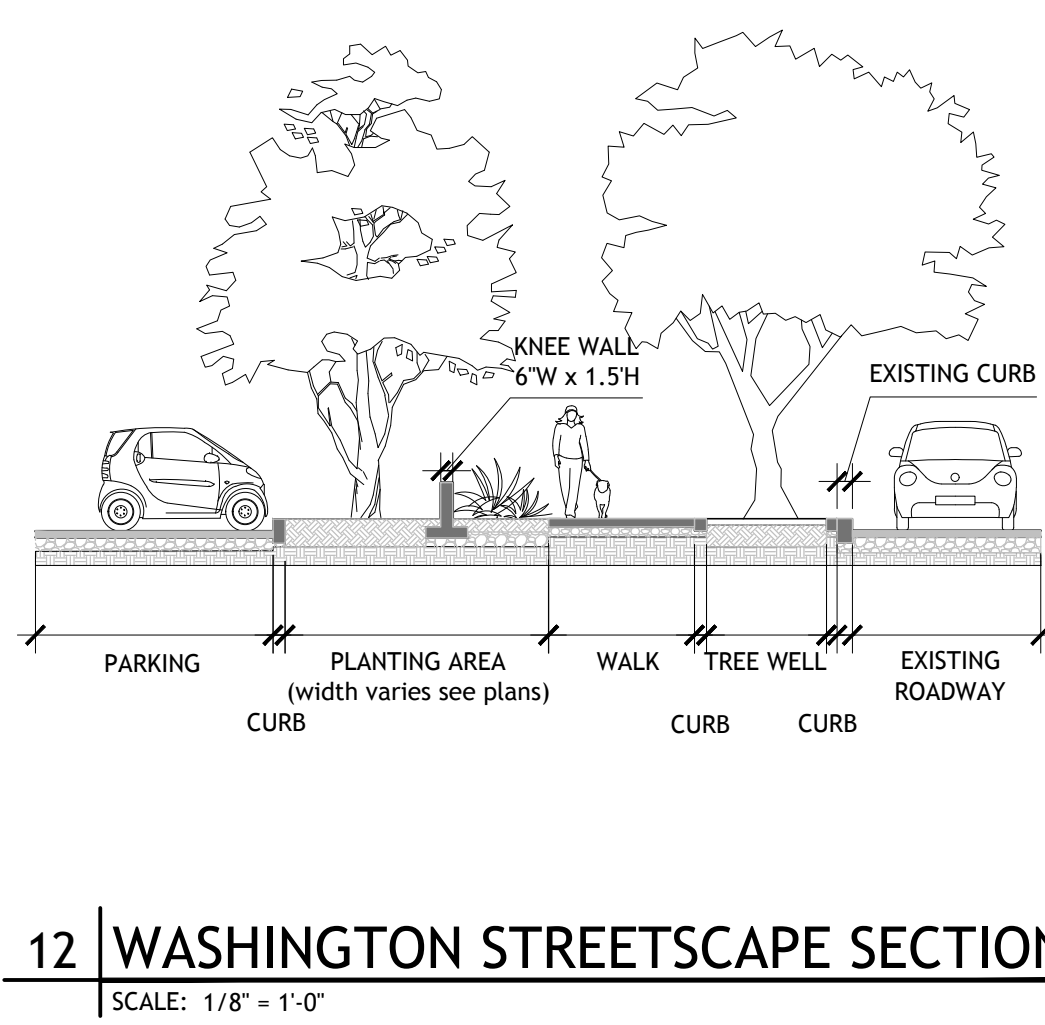
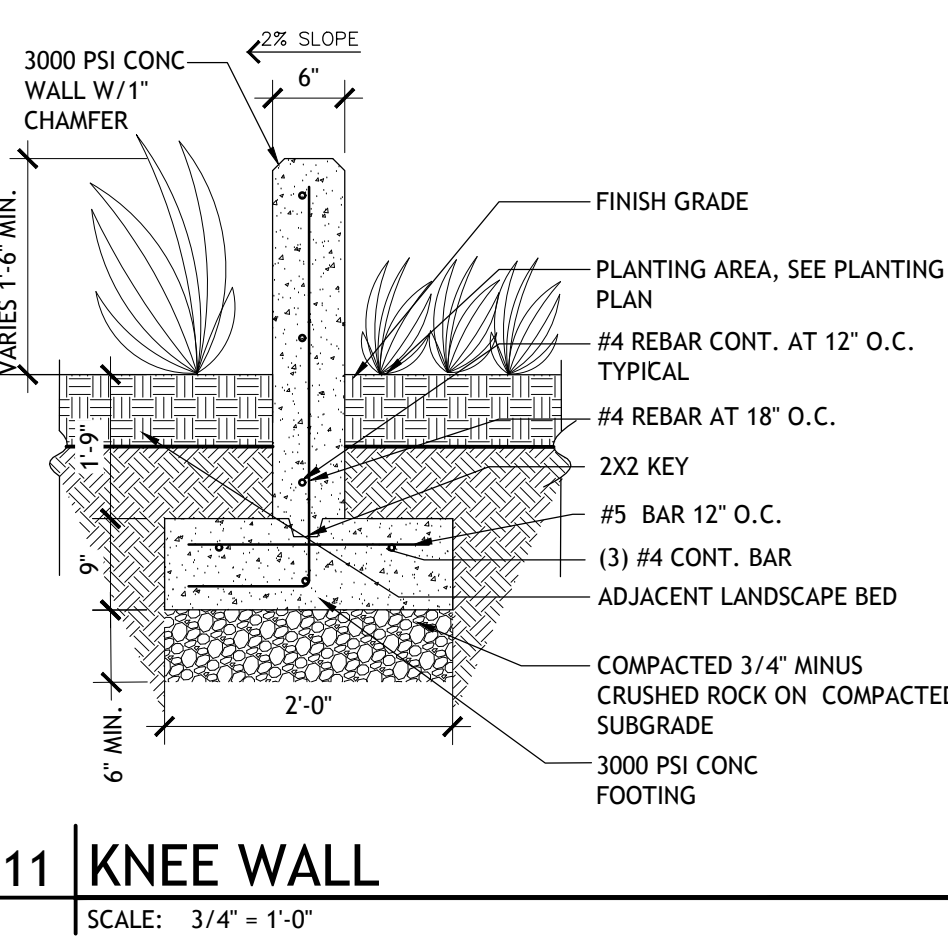
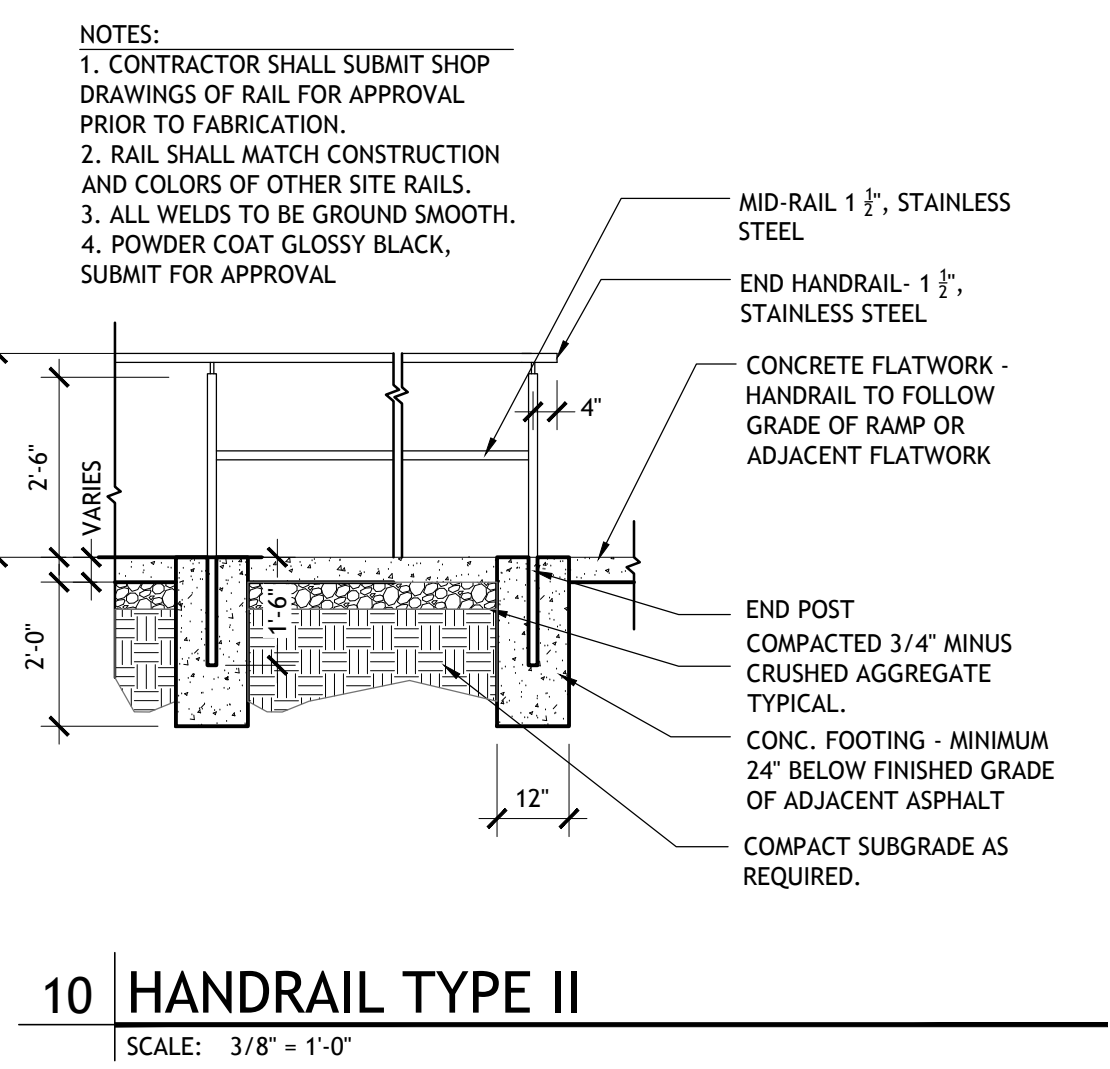
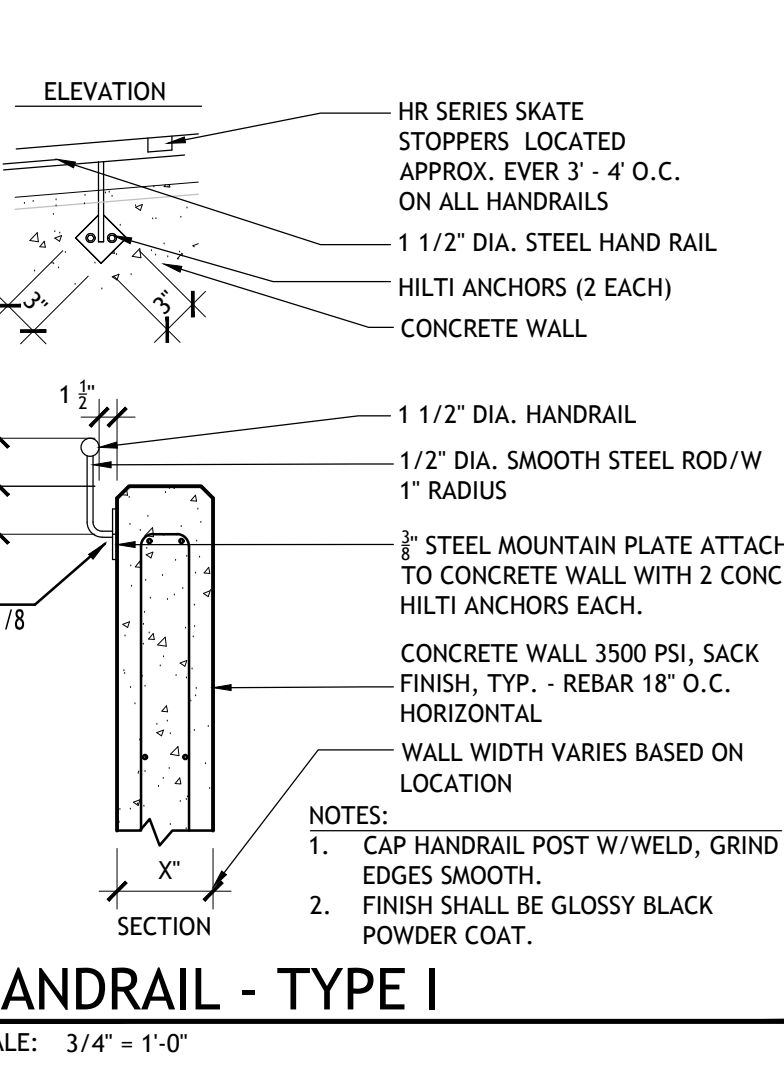
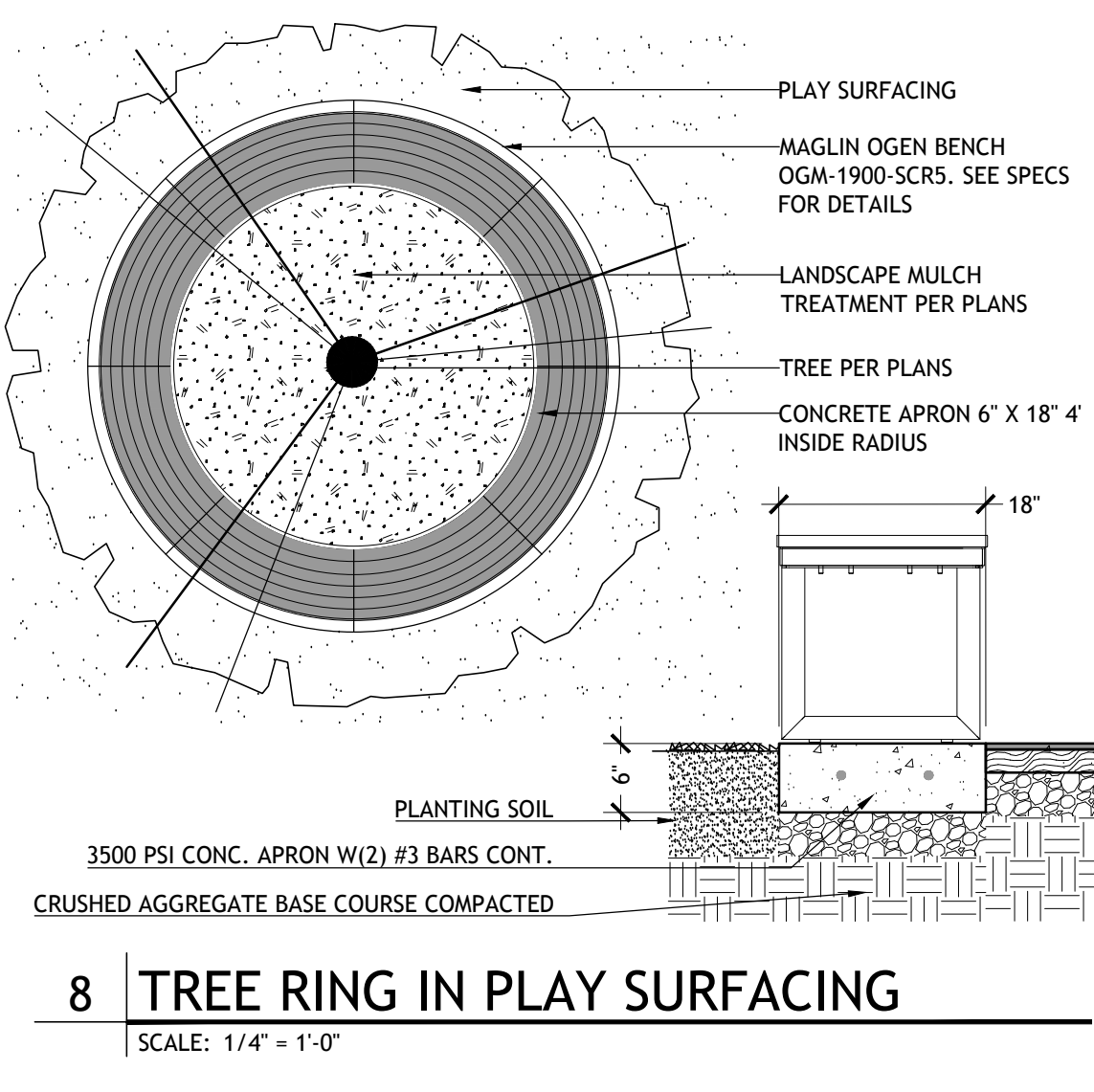
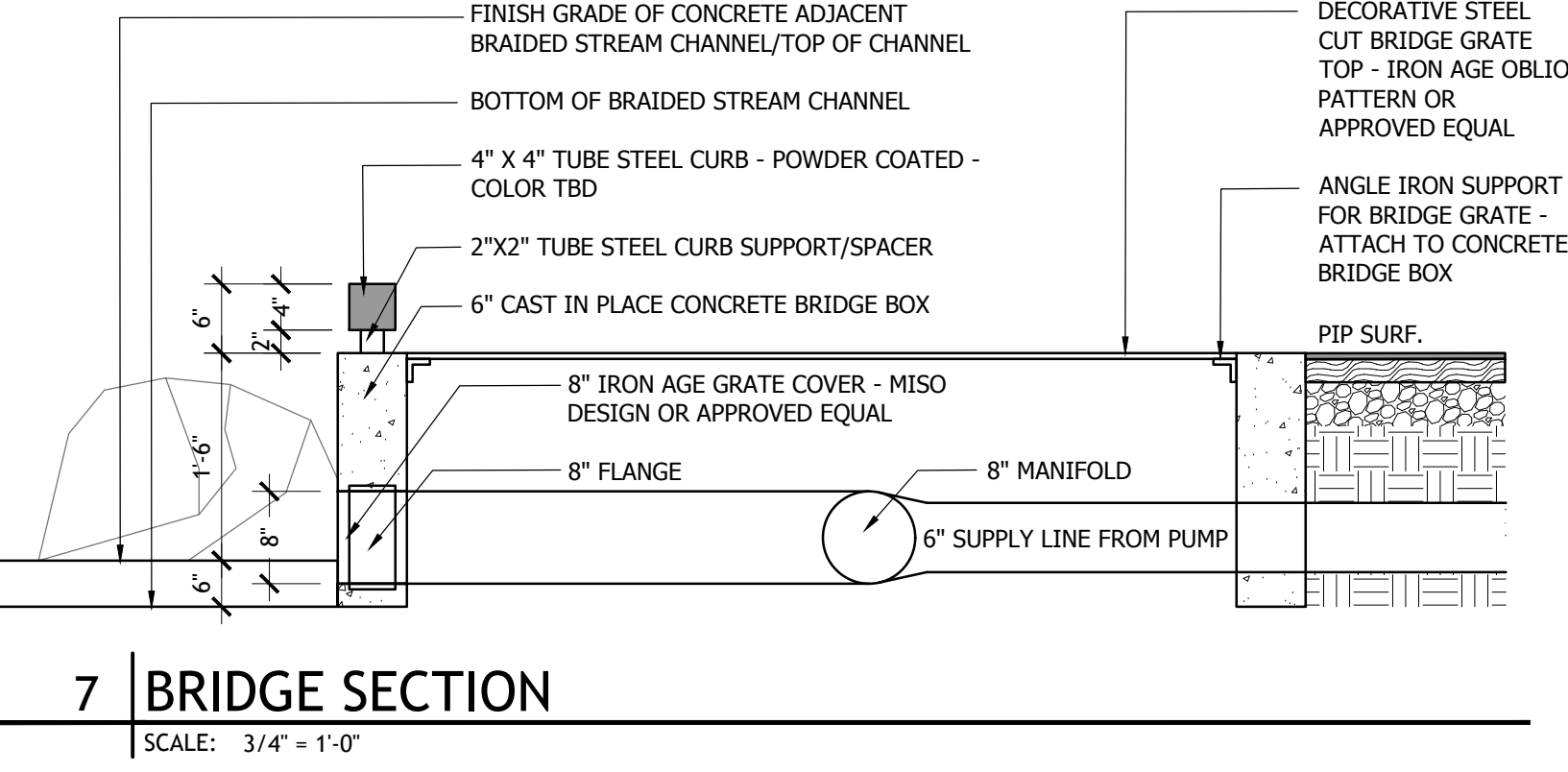
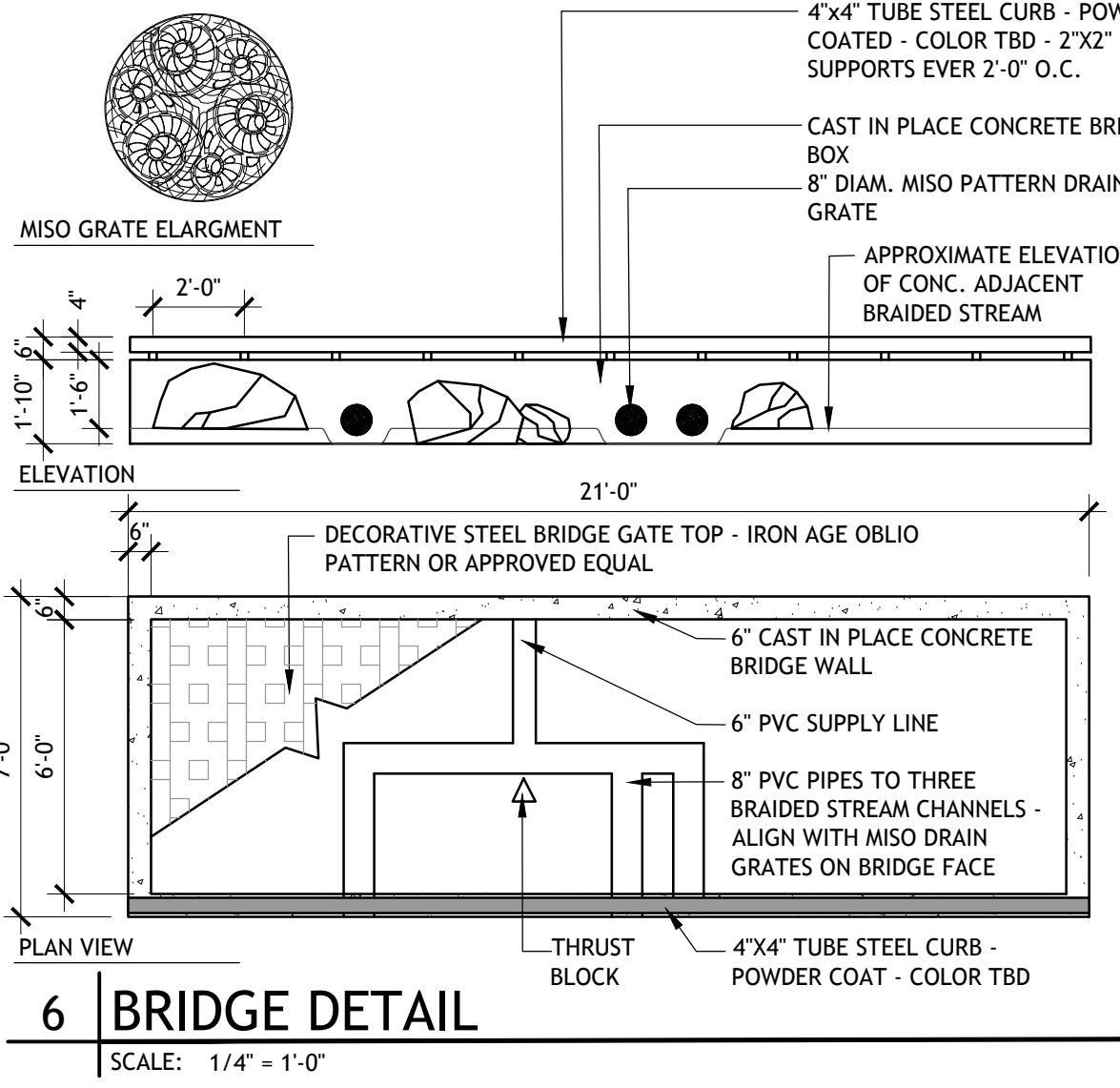
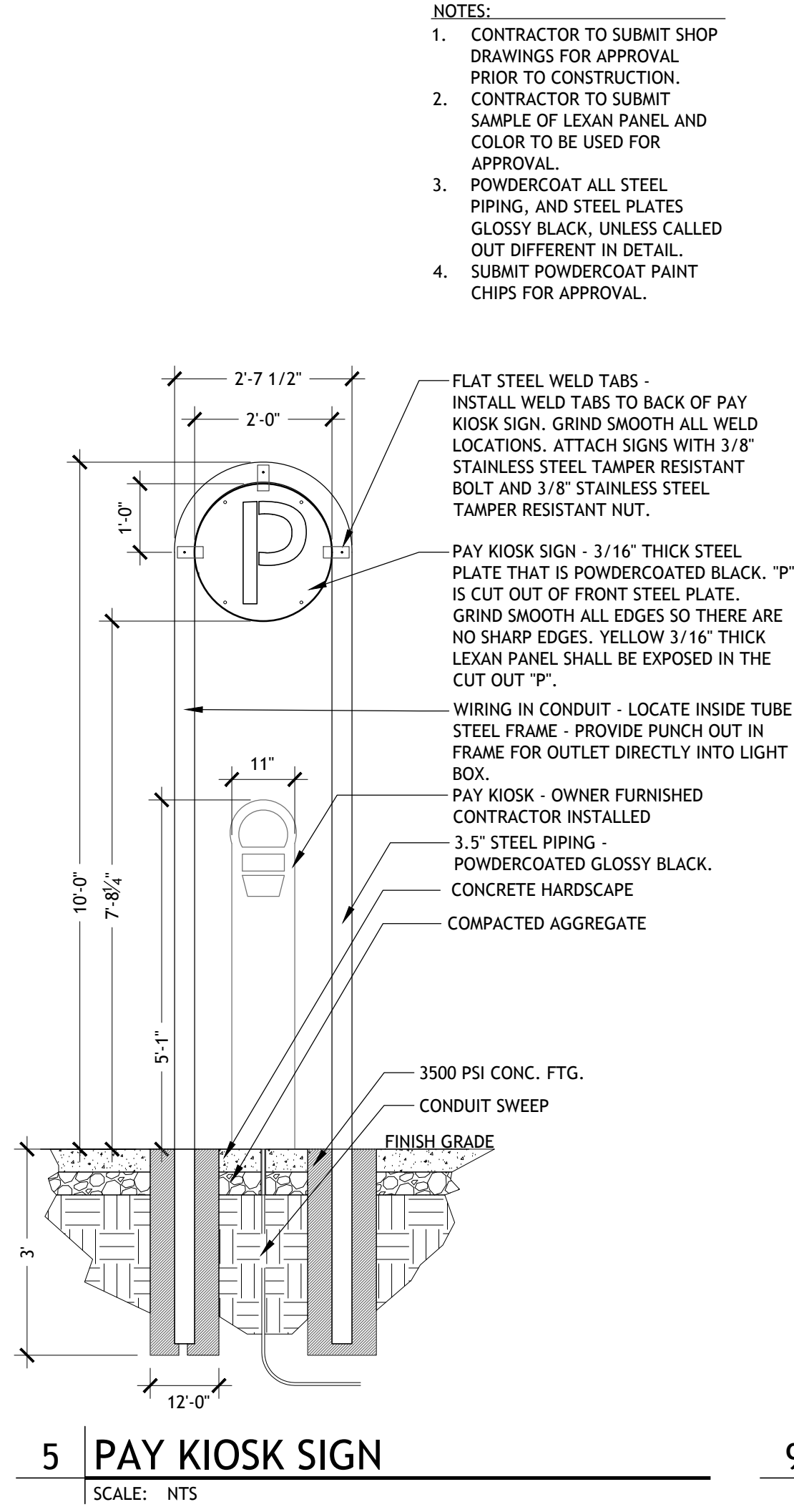
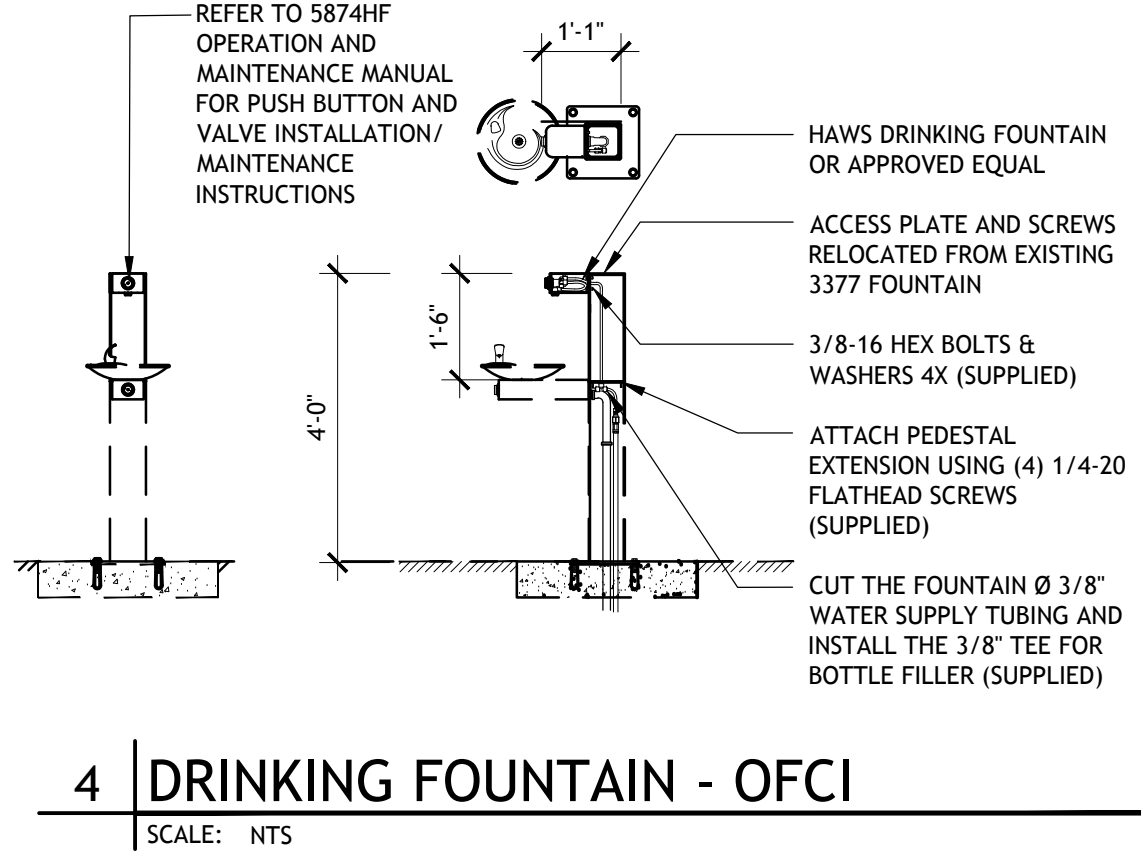
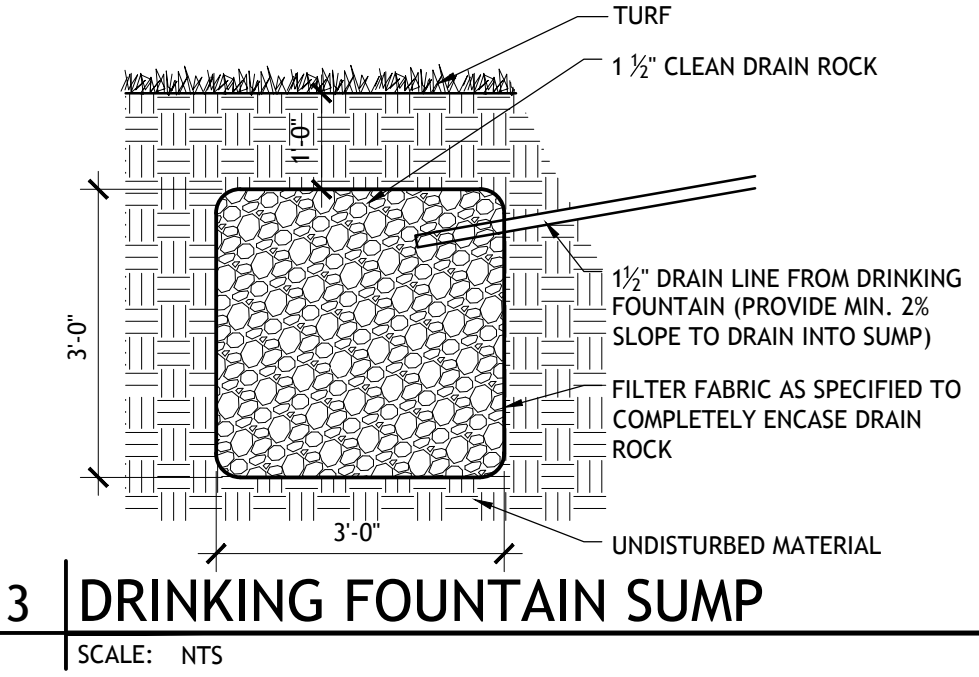
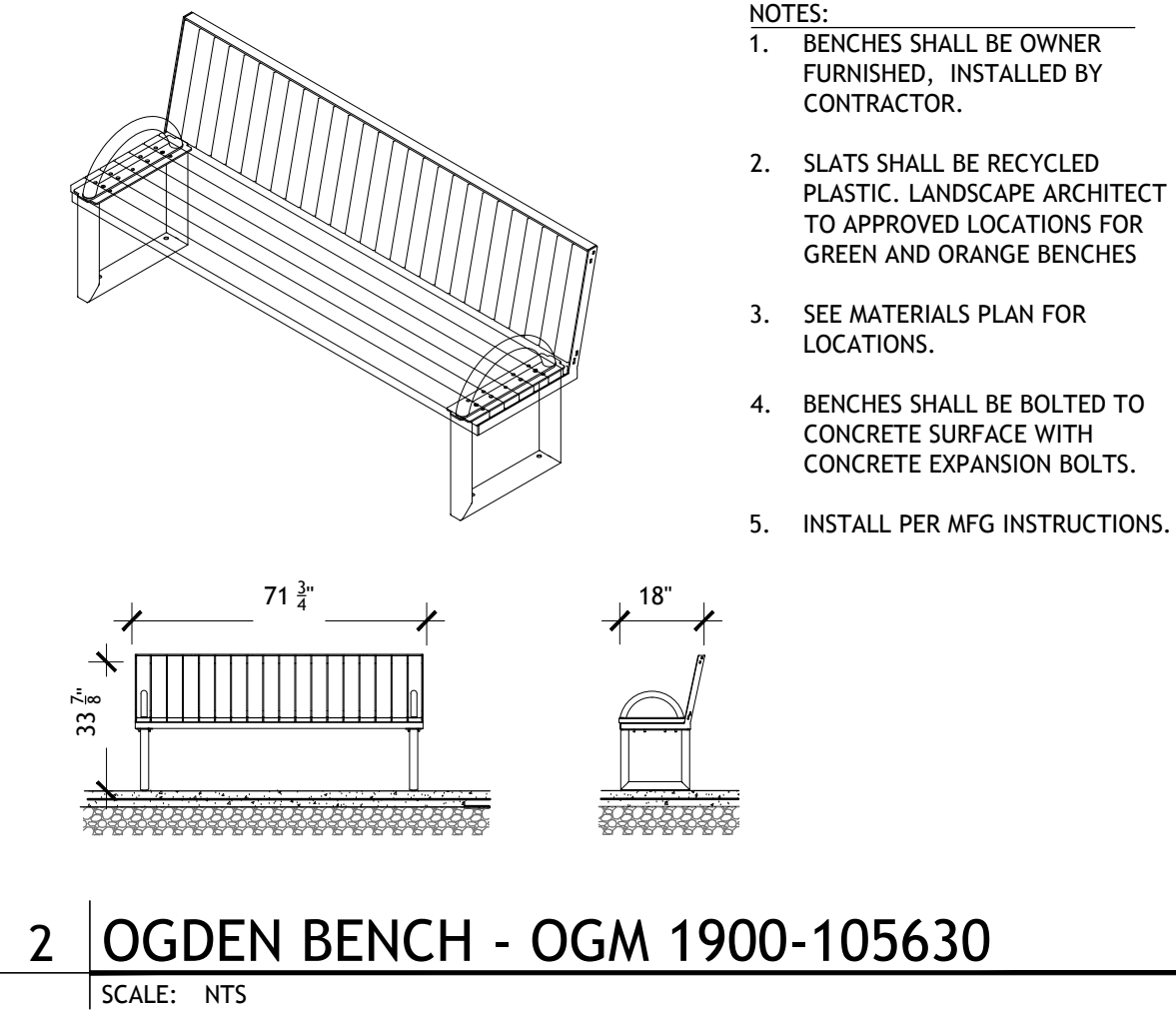
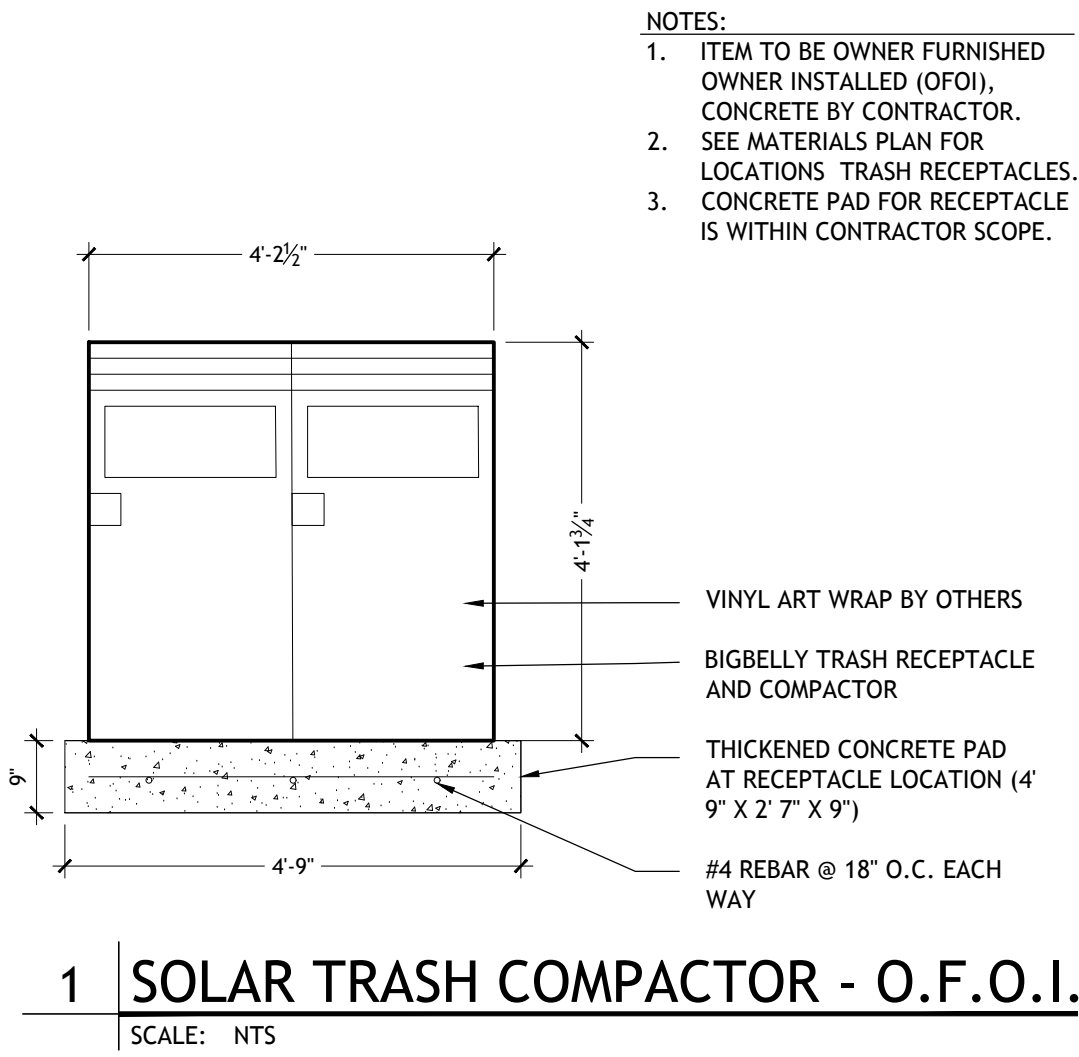
SCALE: 1/4" = 1'-0"



12 ROCK MEDALLION

SCALE: 6" = 1'-0"

			<div>B W A BERNARDO WILLS</div> <div>ARCHITECTS PC</div>	LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95			CITY OF SPOKANE, WASHINGTON DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200		PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		TYPE OF IMPROVEMENT: PARK		
				ELEVATION SEE SHEET V1.0 HORIZONTAL XXX		BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"				CITY PURCHASING NUMBER		DRAWING NUMBER				
				CBM NO. N/A NAVD 88		VERTICAL		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY								
				CITY DATUM		SCALE										
BY	REVISIONS		DATE								SHEET TITLE: HARDSCAPE DETAILS 7.03.2019		P# 1 OF		REVISION NO.: L6.1	



BY		REVISIONS		DATE	
B W A		BERNARDO WILLS		ARCHITECTS PC	
LOCATION		SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION		CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
ELEVATION		SEE SHEET V1.0		HORIZONTAL XXX	
CBM NO.		N/A		VERTICAL	
CITY DATUM		SCALE		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
07.03.19		DRAWN JC/PO		DESIGNED BL	
07.03.19		CHECKED		APPROVED	
CITY OF SPOKANE, WASHINGTON		DEPARTMENT OF PARKS AND RECREATION		808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200	
PROJECT TITLE:		RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET		CITY PURCHASING NUMBER	
SHEET TITLE:		MISCELLANEOUS DETAILS 7.03.2019		DRAWING NUMBER	
DATE: Jul 03, 2019 - 9:17am		by: jculp		FILE NAME:	
DIGITALLY SIGNED:		TYPE OF IMPROVEMENT: PARK		REVISION NO.	
L6.2		P# 1 OF		REVISION NO.	